

Interoffice Memo Office of Design Policy & Support

DATE:

12/12/2018

FILE:

P.I.# 0007057

Warren County / GDOT District 2 - Tennille Bridge Replacement - SR 16 @ Short Creek

FROM:

Brent Story, State Design Policy Engineer

TO:

SEE DISTRIBUTION

SUBJECT:

APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

Distribution:

Hiral Patel, Director of Engineering

Joe Carpenter, Director of P3

Albert Shelby, Director of Program Delivery

Carol Comer, Director, Division of Intermodal

Darryl VanMeter, Assistant Director of P3/State Innovative Delivery Administrator

Kim Nesbitt, Program Delivery Administrator

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Paul Tanner, State Transportation Planning Administrator

Eric Duff, State Environmental Administrator

Bill DuVall, State Bridge Engineer

Andrew Heath, State Traffic Engineer

Angela Robinson, Financial Management Administrator

Erik Rohde, State Project Review Engineer

Monica Flournoy, State Materials Engineer

Patrick Allen, State Utilities Engineer

Eric Conklin, State Transportation Data Administrator

Attn: Systems & Classification Branch

Benny Walden, Statewide Location Bureau Chief

Ed David Adams, State Safety Program Manager

Corbett Reynolds, District Engineer

Todd Price, District Preconstruction Engineer

Jamie Lindsey, District Utilities Manager

Mindy Sanders, Project Manager

BOARD MEMBER - 10th Congressional District

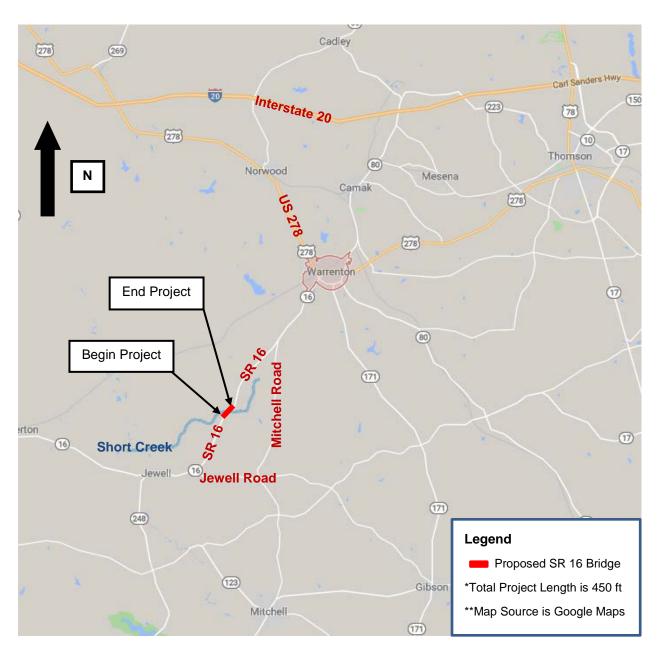
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA LIMITED SCOPE PROJECT CONCEPT REPORT

Project Type. <u>Bridge Replacement</u> P.I. Number	
GDOT District: 2 County	
Federal Route Number: N/A State Route Number	r: <u>16</u>
Project Number: <i>CSBRG-0007-00(057)</i>	
This project consists of replacing the existing bridge on SR 16 over Short Creek.	
	t updated 11/07/18
Submitted for approval:	t upduted 11/07/10
Daney Q Witte Moffatt & Nichol	7/13/18
Consultant Designer & Firm or GDOT Concept/Design Phase Office Head & Office	D-1-
Kumberly W. 4 Jackett	Date 7/23/18
State Program Delivery Administrator	Date
State Program Delivery Administrator Manuhr SHP	7/17/18
GDOT Project Manager	Date
Recommendation for approval:	
Eric Duff / OB	8/15/18
State Environmental Administrator	Date
Christopher Raymond / OB	8/31/18
State Traffic Engineer	Date
Bill DuVall / OB	8/28/18
State Bridge Engineer	Date
Todd Price / OB	9/12/18
District Preconstruction Engineer	Date
☐ MPO Area: This project is consistent with the MPO adopted Regional Tra	nenotation Dlan
(RTP)/Long Range Transportation Plan (LRTP).	insportation Fian
Rural Area: This project is consistent with the goals outlined in the Statewi	ide Transportation Plan
(SWTP) and/or is included in the State Transportation Improvement Progr	
L for 1 do	0-16-10
State Transportation Planning Administrator	8-/6-/8 Date
otato Transportation Flamming Administrator	Date
Approval:	
Concur: 71: 18 (a)	4 17
neukte	9-16-18
GDOT Director of Engineering	Date
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Approve: Margaret & Pukli	12.12.18
GDOT Chief Engineer	Date

Concept Report also reviewed and recommended by:

Kerry Gore, Assistant State Utilities Administrator Erik Rohde, State Project Review Engineer 8/15/18 8/20/18

PROJECT LOCATION MAP



Bridge Replacement – SR 16 / Macon Highway over Short Creek
Warren County, GA
Structure ID 301-0004-0
Map Not To Scale

Limited Scope Concept Report – Page 3 County: Warren

PLANNING & BACKGROUND DATA

Project Justification Statement: The bridge on SR 16 over Short Creek, Structure ID 301-0004-0, was built in 1937. This bridge consists of two (2) spans of steel beams on concrete caps with steel piles. The bridge was designed using an H-15 vehicle, which is below current design standards. The overall condition of this bridge would be classified as fair. The deck is in fair condition with heavy cracking with efflorescence throughout. The superstructure is in fair condition with minor corrosion on all beams with heavy pitting and corrosion noted in the bearing areas. The substructure is in satisfactory condition with minor cracking in the concrete caps. This bridge is classified as having an unknown foundation and therefore could be at risk for scour. Due to the age of the structure, the structural integrity of the bridge pertaining to the design vehicle, and the unknown foundation of the substructure, replacement of this 80-year-old bridge is recommended.

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Existing conditions: SR 16 is a two lane rural highway with 11-foot travel lanes and three-foot shoulders (one-foot paved). The existing bridge is 64-feet long with 11-foot travel lanes and one-foot shoulders.

Other projects in the area:

PI No 0013815, SR 16 @ Rocky Comfort Creek in Warren County TIP #: N/A MPO: N/A - not in an MPO/Not Urban Congressional District(s): 10 **Federal Oversight:** □ PoDI ☐ State Funded ⊠ Exempt □ Other Projected Traffic: AADT 24 HR T: 23% Current Year (2018): 1775 Open Year (2022): 1850 Design Year (2042): 2250 Traffic Projections Performed by: Moffatt & Nichol Date approved by the GDOT Office of Planning: 8/30/18 Functional Classification (Mainline): Rural Minor Arterial Complete Streets - Bicycle, Pedestrian, and/or Transit Standards Warrants: Warrants met: ⊠None □Bicycle □Pedestrian □Transit **Pavement Evaluation and Recommendations** Initial Pavement Evaluation Summary Report Required? $\boxtimes No$ □Yes ⊠No Initial Pavement Type Selection Report Required? □Yes Feasible Pavement Alternatives: $\boxtimes \mathsf{HMA}$ \Box PCC ☐HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project: The proposed project will replace the existing 64-foot long bridge at SR 16 and Short Creek with an 85-foot long bridge with 12-foot travel lanes and eight-foot shoulders. The substandard existing bridge will be replaced with a bridge that meets current standards and is structurally sufficient. The anticipated proposed structure is a single-span PSC beam bridge with concrete deck and barriers The roadway typical section will transition from the existing two 11-foot lanes with 3-foot shoulders (1-foot paved) to two 12-foot lanes with 10-foot shoulders (4-foot paved). The bridge typical section will increase from the existing 11-foot lanes with 1-foot shoulders to 12-foot lanes with 8-foot shoulders. The total project length is 0.10 miles. An off-site detour will be utilized, diverting traffic entirely on other state routes. The detour route will travel along SR 123, SR 102, SR 171, and SR 12 Bypass, as shown in the detour route map, resulting in an additional 19 miles along the detour route.

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Major Structures:

Structure ID	Existing	Proposed
301-0004-0	The existing bridge is 64-feet long and 26.5-feet wide with two 11-foot lanes and one-foot shoulders.	The proposed bridge is 85- feet long and 43'-3" wide with two 12-foot lanes and eight-foot shoulders.

Accelerated Bridge Construction (ABC) techniques anticipated: □ No X Yes The existing structurally deficient bridge will be replaced and widened to meet current design loading and shoulder width requirements. To reduce traffic impacts and onsite construction time, potential ABC techniques being considered include:

- Use of an off-site detour The offsite detour option could save up to 12 months of road closure, allowing the contractor to complete construction quickly and safely.
- Use of an on-site detour (temporary bridge) The on-site detour option could save approximately 6 months of road closure. It is not as effective as the off-site detour because of time required for construction and demolition of temporary bridge and stream impacts.
- Use of a single-span structure The single-span structure option would only be considered if roadway profile changes can be minimized. Single span structures significantly reduce or eliminate stream impacts; however, if raising the roadway profile is required savings in road closure time must be weighed against additional impacts, cost, and construction time to support this technique.

Mainline Design Features: SR 16 @ Short Creek

Feature	Existing	Policy	Proposed
Typical Section			
- Number of Lanes	2		2
- Lane Width(s)	11 ft	11-12 ft	12 ft
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder Width	3 ft (1 ft paved)	10 ft (4 ft paved)	10 ft (4 ft paved)
- Outside Shoulder Width (Bridge)	1 ft	8 ft	8 ft
- Outside Shoulder Slope	8%	6%	6%
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A		N/A
- Bike Accommodations	N/A	N/A	N/A
Posted Speed	55 MPH		55 MPH
Design Speed	55 MPH	55 MPH	55 MPH
Minimum Horizontal Curve Radius	N/A	1060 ft	N/A
Maximum Superelevation Rate	Normal Crown	6% or 8%	Normal Crown
Maximum Grade	4.8%	5%	5%
Access Control	Permitted	Permitted	Permitted
Design Vehicle	H-15	SU	WB-67/HL-93
Pavement Type	Asphalt		Asphalt

^{*}According to current GDOT design policy if applicable

☐ Yes Is the project located on a NHS roadway? \boxtimes No

Design Exceptions/Design Variances to GDOT and/or FHWA Controlling Criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

Lighting required:	⊠ No		□ Yes			
Off-site Detours Antici If yes: Roadwa Detour Route se District Concurr	ay type to be clo elected:	sed: □ Local	□ Local Road Road	State	⊠ State R Route	
Note: Received concurre public input from the PD		Detour R	oute alternati	ve from the	District co	ontingent on the
Transportation Manag If Yes: Project class TMP Components A	ified as:		ired: □ No ⊠ Non-Signif ⊠ TTC		⊠ Yes	
INTERCHANGES	S AND INT	ERSEC	CTIONS			
Major Interchanges/Int	ersections: No	one				
Intersection Control E Roundabout Peer Rev	` ,				Yes Complete	ed – Date:
UTILITY AND PF	ROPERTY					
Railroad Involvement:	N/A					
Utility Involvements: • ATT/D Telecom						
SUE Required:	⊠ No	□Yes				
Public Interest Determ	ination Policy	and Proc	edure recom	mended?	⊠ No	☐ Yes
Right-of-Way: Required Right-of-Way Easements anticipated:	•	None	•	osed width:		Undetermined Other
	Anticipated to Displacements		Re	d parcels: usinesses: esidences: Other: acements:	0	- - - -
Impacts to USACE pro	perty anticipat	ed?	⊠ No	□ Yes		Undetermined
CONTEXT SENS	SITIVE SOL	.UTION	IS			

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Issues of Concern: None

Context Sensitive Solutions Proposed: None

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County: Warren

ENVIRONMENTAL AND PERMITS

Anticipated En NEPA: GEPA:	nvironmental De □ PCE □ Type A	ocument: ⊠ CE □ Type B	□ EA-FC □ None	NSI		
☐ The environment Environment		rations noted be d are subject to				
		rations noted belind agency concu		d on the comple	etion of resour	ре
	Requirements: nce – Is the proj	ect located in a	n MS4 area1	? ⊠ No	□ Yes	
Is Non-MS4 w	ater quality miti	gation anticipat	ted? ⊠	No 🗆	Yes	
	ı l Permits, Vari a Stream Buffer Va	ances, Commitr riance	ments, and	Coordination	anticipated: S	Section 404 and
	ocated in an Ozo ide hotspot anal	ne Non-attainme /sis required?	nt area?	⊠ No ⊠ No		
 Ecolog O History Archae based Air: So Noise 	Protected Spec Critical Habitat Protected Spec and assessment Y: A No Historic elogy: 1 precont on results of Phatereening type rep Report: Type III	Assessment of Effices – to be deter – None cis Survey Reporant of suitable hab Properties Affect act site identified ase I report. ort, no modeling	mined after f ts – to be de itat. Special ed Report is . A Phase I r	ield surveys etermined base Provisions may anticipated. eport is anticipa	/ be required. ated. Phase II to	o be determined
COORDIN	ATION, AC	TIVITIES, R	ESPONS	SIBILITIES	, AND CO	STS
Is Federal Avi	ation Administr	ation (FAA) coo	rdination ar	nticipated?	⊠ No	☐ Yes
Project Meetin	Alternatives Concept Te	eting – 12/6/2017 Meeting – 3/20/2 am Meeting – 5/1 ur Open House N	2018 16/2018	vember, 2018		
Other coordin	otion to doto. C	orly Dotour goord	ination vic a	roctionnoires s	nd a dataur ma	n word provided

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County: Warren

Other coordination to date: Early Detour coordination via questionnaires and a detour map were provided to local stakeholders. Responses were received from the Emergency Management Agency (EMA) and the County Administration.

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Moffatt & Nichol
Design	Moffatt & Nichol
Right-of-Way Acquisition	GDOT

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County: Warren

Utility Coordination (Preconstruction)	GDOT
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	CALYX, Ecological Solutions, VHB
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

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Project Cost Estimate and Funding Responsibilities:

	PE Act	ivities				
	PE Funding	Section 404 Mitigation	ROW**	Reimbursable Utilities	CST*	Total Cost
Funded By	GDOT	GDOT	GDOT	GDOT	GDOT	
\$ Amount	\$981,568.86	\$0	TBD	\$0	\$1,410,481.29	\$2,392,050.15
Date of Estimate	12/9/2016	7/13/2018	N/A	5/16/2018	10/23/2018	

^{*}CST Cost includes: Construction, Engineering and Inspection, Contingencies and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Preferred Alternative C: This alternative includes reconstruction on the existing alignment accomplished by means of an off-site detour and will involve the replacement of the existing substandard 64-foot long bridge with a proposed 85-foot long bridge.

Estimated Property Impacts:	2	Estimated Total Cost:	\$2,426,318.15
Estimated ROW Cost:	\$34,268 ***	Estimated CST Time:	12 months

Rationale: This alternative is preferred because of the cost and time savings and lesser impacts of the project through the use of an off-site detour with a net length of 19 miles. This recommended off-site detour, which is east of the project, is a State Route only detour. Bridges along this route are not posted for weight restrictions. A shorter local route, no trucks, was also provided on the detour map via Jewell Road and Mitchell Road, an approximate net increase length of 2 miles. During bridge closure, access to New Salem Baptist Church will be impacted on the north end of the bridge. Early coordination with the Emergency Management Agency (EMA) and the County Administration suggest that there is moderate to high impact if the bridge were to be closed for up to a year. County Administration is concerned about excessive wear and tear on the county roads from state route traffic using county roads as a detour. This option will impact three parcels but will reduce the construction limits to the north and south resulting in the lower project cost.

^{***}GDOT ROW Estimate Cost requested on 4/18/18; Estimated ROW Cost provided by the Consultant

No-Build Alternative: No Build			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0
Estimated ROW Cost:	\$0	Estimated CST Time:	0 months

Rationale: This alternative was rejected because it does not achieve the improved safety condition by replacement of the aging and deficient structure that is proposed in the project justification statement.

^{**}Programming level cost provided = \$59,400, ROW estimate requested on 4/18/18. ROW costs will be updated upon receipt of estimate from ROW office.

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Alternative A: This alternative includes a parallel alignment to the southeast and will involve the replacement of the existing substandard 64-foot long bridge with a proposed 85-foot bridge.

Estimated Property Impacts:	3	Estimated Total Cost:	\$3,045,845.92
Estimated ROW Cost:	\$53,329 ***	Estimated CST Time:	24 months

Rationale: Shifting the roadway further to the southeast will impact three parcels and would allow the existing roadway and bridge to remain open during construction but would extend the construction limits by approximately one-half mile to the south and an even greater distance to the north due to the existing curve. The construction cost is higher for asphalt realignment to the new bridge location.

Alternative B: This alternative includes a parallel alignment to the northwest and will involve the replacement of the existing substandard 64-foot long bridge with a proposed 85-foot bridge.

Estimated Property Impacts:	1	Estimated Total Cost:	\$2,945,070.19
Estimated ROW Cost:	\$23,355 ***	Estimated CST Time:	24 months

Rationale: Shifting the roadway to the northwest will impact one parcel and would allow the existing roadway and bridge to remain open during construction but would extend the construction limits by approximately one-quarter mile to the south and an even greater distance to the north due to the existing curve. This parallel alignment would also require the relocation of AT&T aerial and buried fiber optic cable on the northwestern side of the existing bridge. The construction cost is higher for asphalt realignment to the new bridge location.

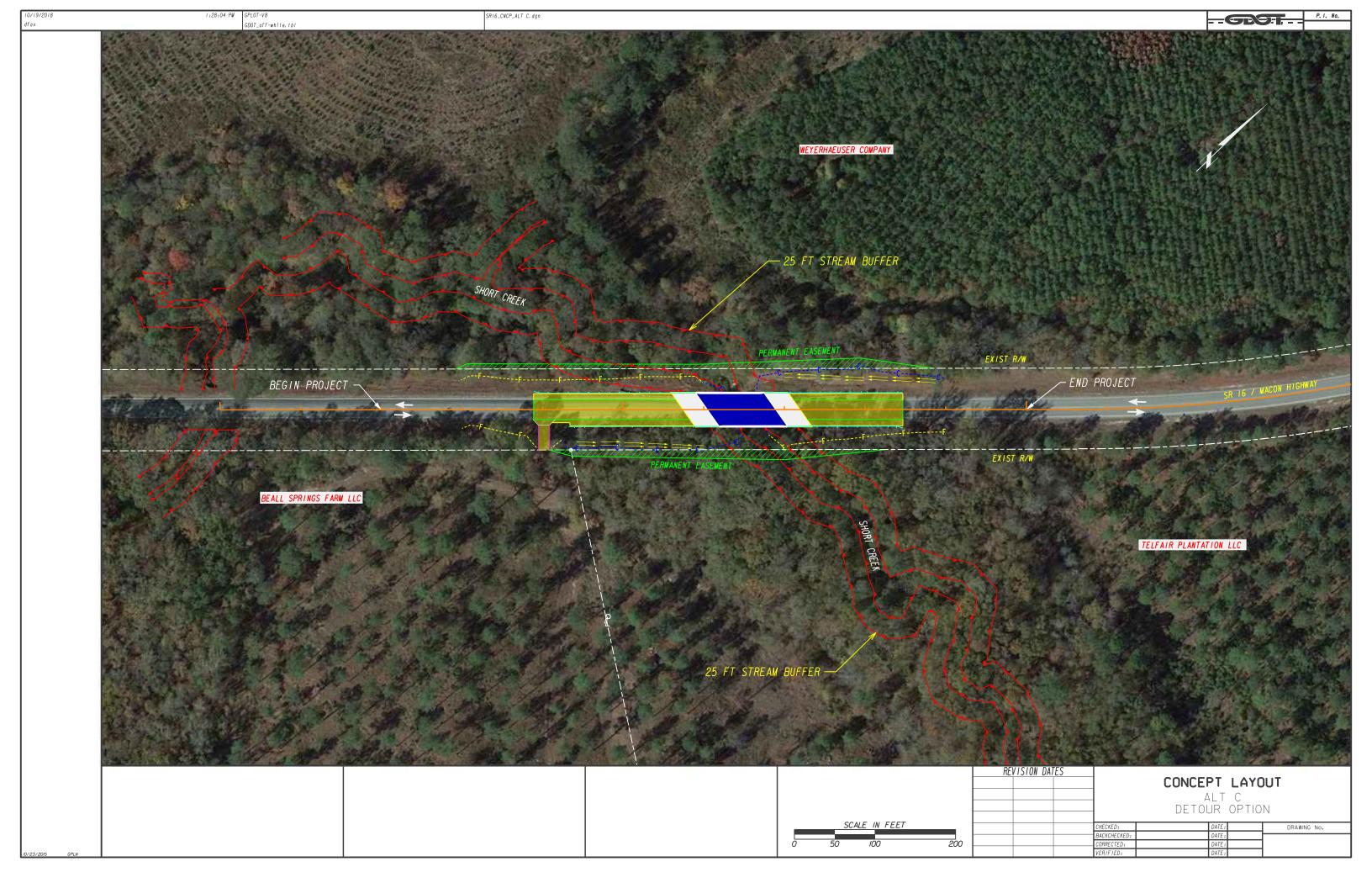
Additional Comments/ Information: This project is part of the Warren County – Piedmont Scenic Byway Extension

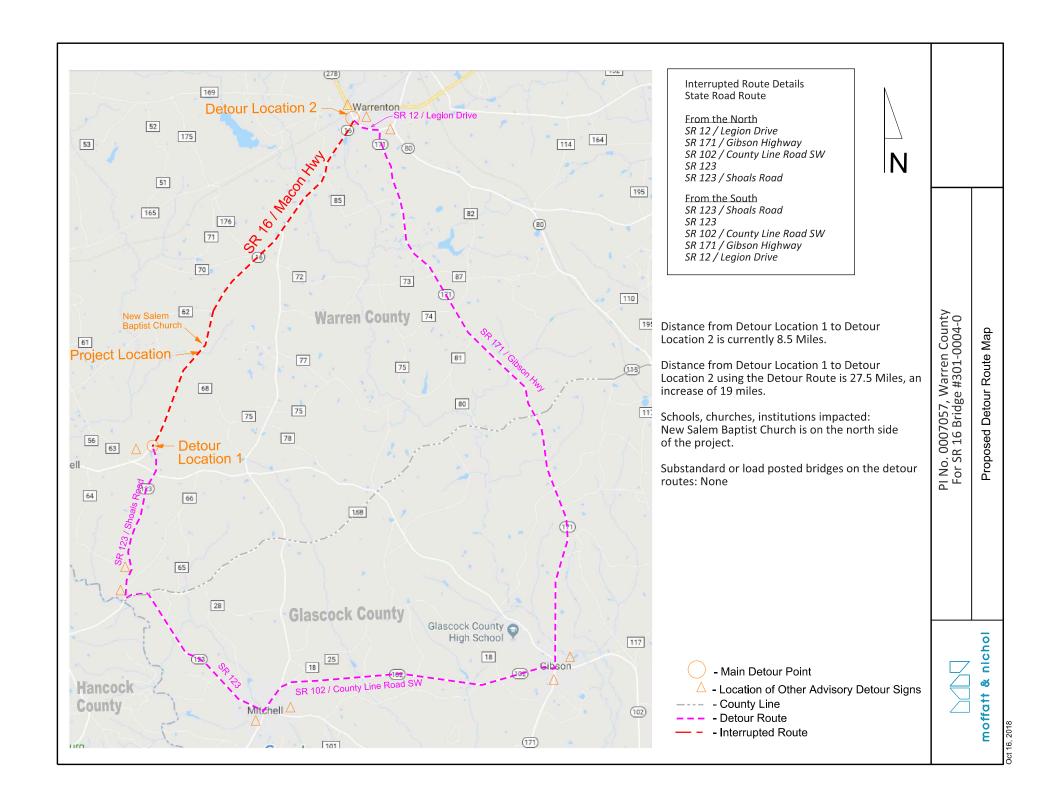
LIST OF ATTACHMENTS/SUPPORTING DATA

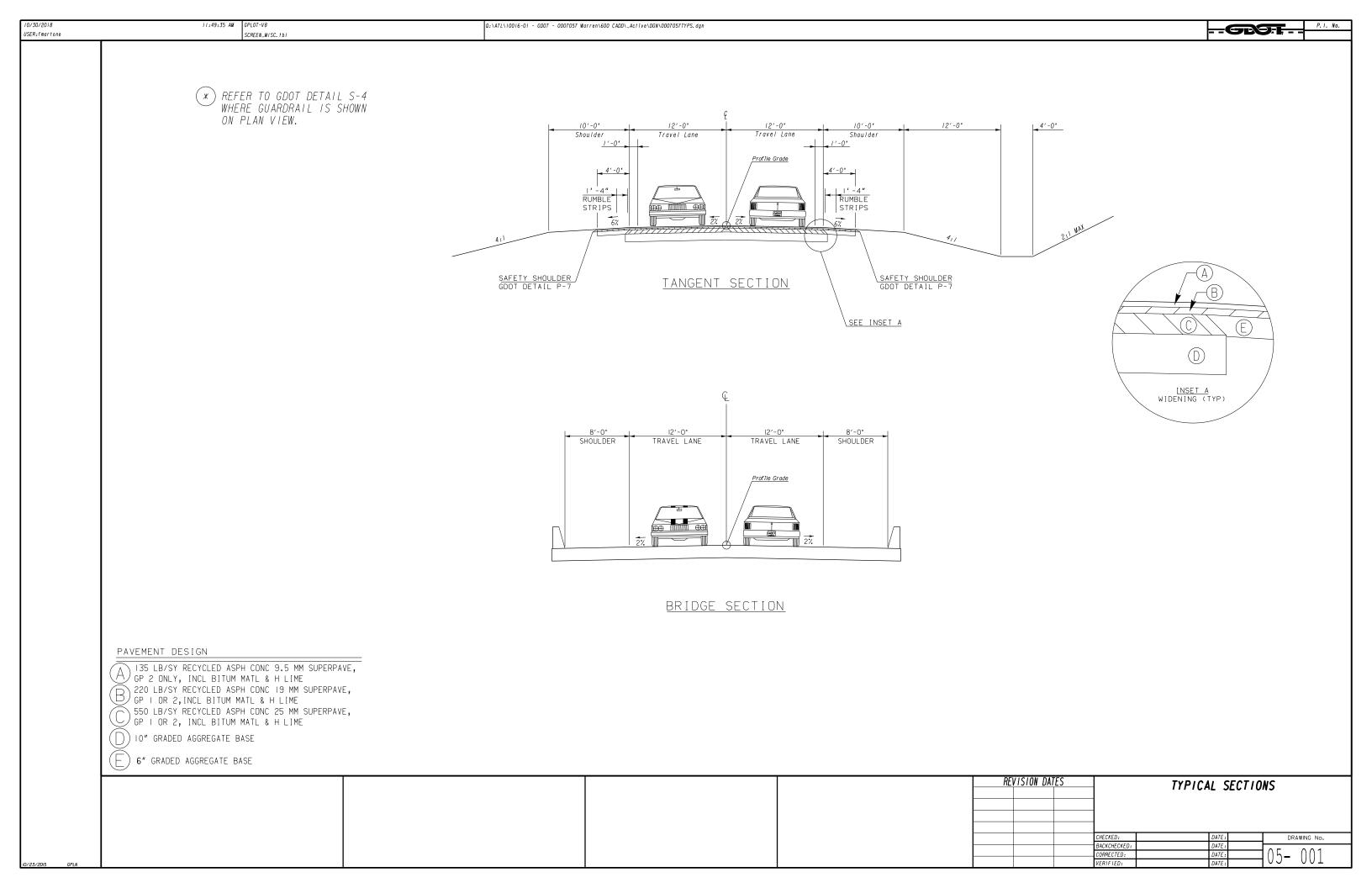
- 1. Concept Layout
 - a. Preferred Alternative
 - b. Detour Map
- 2. Typical Sections
- 3. Detailed Cost Estimates:
 - Construction including Engineering and Inspection and Contingencies
 - b. Completed Liquid AC Cost Adjustment forms
 - c. Right-of-Way (by Consultant)
 - d. Utilities
 - e. Section 404 Mitigation
- 4. Concept Utility Report
- 5. Approved Bridge Traffic Memo
- 6. SI&A Report
- 7. Meeting Minutes
 - a. Kick-off Meeting
 - b. Alternatives Meeting
 - c. Concept Team Meeting

^{***}GDOT ROW Estimate Cost requested on 4/18/18; Estimated ROW Cost provided by the Consultant

^{***}GDOT ROW Estimate Cost requested on 4/18/18; Estimated ROW Cost provided by the Consultant







DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	P.I. No.		0007057		OFFICE	Program Delivery
PROJE	CT DESCR	[PT]				
SR 16 @	Short Creek	k, W	arren County			
					DATE	October 23, 2018
From:	Kimberly N	Nesb	itt, State Program Delivery Administra	ator		
To:	Lisa L. My	ers,	State Project Review Engineer			
	via Email N	Mail	box: CostEstimatesandUpdates@dot	t.ga.gov		
G1-:4-	DEVICION	IO T	O BROCK AMMER COSTS			
Subject:	REVISION	1 61	O PROGRAMMED COSTS	MGMT LE	T DATE	2/15/2021
PROJEC	T MANAGI	ER	Mindy Sanders		1 21112	2, 13, 2021
				MGMT RO	W DATE	3/12/2020
PROGR	AMMED C	OS	ΓS (TPro W/OUT INFLATION)		LAST	ESTIMATE UPDATE
CONSTI	RUCTION	\$	1,183,505.56		DATE	6/29/2018
RIGHT (OF WAY	\$	59,400.00		DATE	5/25/2017
UTILITI	ES	\$			DATE	
REVISE	ED COST ES	STI	<u>MATES</u>			
CONSTI	RUCTION*	\$	1,410,481.29			
RIGHT (OF WAY	\$	Requested 4/18/18			
UTILITI	ES	\$	0.00			
*Cost C	Contains	10	% Contingency			

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

The construction cost estimate has been updated to reflect the preferred concept using current pay item costs. The contingency is set to 10% based on low identified risks. Right of way and utility cost estimate updates are forthcoming.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$ 1,21	<mark>2,107.51</mark>	Base Estimate From CES					
B. ENGINEERING AND INSPECTION (E & I):	\$ 60),605.38	Base Estimate (A) x	5 %				
c. CONTINGENCY:	\$ 127	7,271.29	Base Estimate (A) + E & I (B) x See % Table in "Risk Based Cost Estimation" Memo	10 %				
D. TOTAL LIQUID AC ADJUSTMENT:	\$ 10	0,497.12	Total From Liquid AC Spreads	sheet				
E. CONSTRUCTION TOTAL:	\$ 1,410	,481.29	(A + B + C + D = E)					
REI	MBURSABI	LE UTI	LTY COSTS					
HTH ITV OWNER REIMRURSARI E COST								
UTILITY OWNER	R		REIMBURSABLE COST					
UTILITY OWNER	R		REIMBURSABLE COST					
UTILITY OWNER		\$	REIMBURSABLE COST	_				
UTILITY OWNER		\$	REIMBURSABLE COST	-				
UTILITY OWNER		\$	REIMBURSABLE COST	-				
UTILITY OWNER		\$	REIMBURSABLE COST	- - -				
UTILITY OWNER		\$	REIMBURSABLE COST	- - -				
UTILITY OWNER		\$	REIMBURSABLE COST	- - -				
UTILITY OWNER		\$	REIMBURSABLE COST	-				
TOTAL		\$	REIMBURSABLE COST	- - - -				
	iject Cost Estima	\$ \$ \$	REIMBURSABLE COST	- - -				

Consultant Validation of Final QC/QA for Construction Cost Estimate Used in This Revision To Programmed Costs

COMPANY NAME:	offatt & Nichol			
VALI	DATION OF FINAL QC/QA			
PRINTED NAME:	Darren Wilton, PE			
TITLE:	Project Manager			
SIGNATURE:	Danen J. Wilton			
DATE:	10/23/2018			

DATE : 10/23/2018

PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER: 0007057 ALT C SPEC YEAR: 13

DESCRIPTION: SR 16 AT SHORT CREEK

ITEMS FOR JOB 0007057 ALT C

			TIEMS FOR JOB 000/03/ ALI C			
LINE	ITEM				PRICE	
0005	150-1000	LS	TRAFFIC CONTROL - 0007057 FIELD ENGINEERS OFFICE TP 3 GRADING COMPLETE - 0007057 TEMPORARY GRASSING MULCH CONSTRUCTION EXIT	1.000	60000.00	60000.00
	153-1300	EΑ	FIELD ENGINEERS OFFICE TP 3	1.000	102569.60	102569.60
0010	210-0100	LS	GRADING COMPLETE - 0007057	1.000	100000.00	100000.00
	163-0232	AC	TEMPORARY GRASSING	3.000	512.75	1538.26
	163-0240	TN	MULCH	16.000	324.53	5192.54
	163-0300	EΑ	CONSTRUCTION EXIT	2.000	1592.34	3184.69
	163-0503	EΑ	CONSTRUCTION EATT CONSTR AND REMOVE SILT CONTROL GATE, TP 3	1.000	596.12	596.12
	163-0527	EΑ	CNST/REM RIP RAP CKDM, STN P RIPRAP/SN BG	15.000	380.40	5706.12
	163-0550	EΑ	CONS & REM INLET SEDIMENT TRAP	2.000	212.46	424.94
	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1550.000	0.91	1416.90
	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	150.000	11.26	1690.11
	165-0087	EA 	MAINT OF SILT CONTROL GATE, TP 3	1.000	170.39	170.39
	165-0101	EA	MAINT OF CONST EXIT	2.000	664.01	1328.04
	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	2.000	80.38	160.//
	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	4.000	304.14	1216.60
	167-1500 171-0030	MO LF	WATER QUALITY INSPECTIONS	12.000	702.19	12502 55
	310-1101	TN	TEMPORARY SILT FENCE, TIPE C	3100.000	4.05	12383.33
	402-1812	TN	DECYL AC LEVELING INCL PAGE	10 000	39.92 115 00	1602 01
	402-1612	TN	DECVI AC DEMELLING, INCL DMARL	248 000	110.09	27361 94
	402-3121	TN	DEC AC 0 5 MM QD TDII CD2 INCI BMARI	128 000	110.33	13995 52
	402-3190	TN	RECVI. AC 19 MM SP CP 1 OR 2 INC BM&HI.	206 000	114 03	23490 18
	413-0750	GL	TACK COAT	125 000	2 27	283 75
	432-5010	SY	MILL ASPH CONC PVMT, VARB DEPTH	760.000	9.01	6852.95
	433-1200	SY	REF CONC APPR SL/I SLOPED EDGE	281.000	187.65	52730.25
	441-0301	EA	CONSTRUCTION EXIT CONSTR AND REMOVE SILT CONTROL GATE, TP 3 CNST/REM RIP RAP CKDM, STN P RIPRAP/SN BG CONS & REM INLET SEDIMENT TRAP MAINT OF TEMP SILT FENCE, TP C MAINT OF CHECK DAMS - ALL TYPES MAINT OF SILT CONTROL GATE, TP 3 MAINT OF INLET SEDIMENT TRAP WATER QUALITY MONITORING AND SAMPLING WATER QUALITY MONITORING AND SAMPLING WATER QUALITY INSPECTIONS TEMPORARY SILT FENCE, TYPE C GR AGGR BASE CRS, INCL MATL RECYL AC LEVELING, INCL BM&HL RECYL AC 25MM SP, GP1/2, BM&HL RECYL AC 19 MM SP, GP 1 OR 2 , INC BM&HL TACK COAT MILL ASPH CONC PVMT, VARB DEPTH REF CONC APPR SL/I SLOPED EDGE CONC SPILLWAY, TP 1 INDENT. RUMB. STRIPS - GRND-IN-PL REM OF EX BR, STA NO - 0007057 CONSTR OF BRIDGE COMPLETE - 0007057 STM DR PIPE 18, H 1-10 FLARED END SECT 18 IN, ST DR SLOPE DRAIN PIPE, 15 IN STN DUMPED RIP RAP, TP 3, 18 STN DUMPED RIP RAP, TP 3, 18 STN DUMPED RIP RAP, TP 1, 24 PLASTIC FILTER FABRIC CHANGEABLE MESS SIGN, PORT, TP 3 HWY SGN, TP1MAT, REFL SH TP 11 GALV STEEL POSTS, TP 7 GUARDRAIL, TP T	2.000	2163.04	4326.09
	456-2015	GLM	INDENT. RUMB. STRIPS - GRND-IN-PL	0.118	1553.71	183.34
	540-1101	LS	REM OF EX BR, STA NO - 0007057	1.000	76320.00	76320.00
0139	543-9000	LS	CONSTR OF BRIDGE COMPLETE - 0007057	1.000	459600.00	459600.00
0144	550-1180	LF	STM DR PIPE 18,H 1-10	60.000	74.61	4477.14
0149	550-4218	EΑ	FLARED END SECT 18 IN, ST DR	2.000	632.67	1265.35
	576-1015	LF	SLOPE DRAIN PIPE, 15 IN	65.000	39.92	2594.80
	603-2181	SY	STN DUMPED RIP RAP, TP 3, 18	200.000	50.81	10163.86
	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24	2200.000	53.03	116670.07
	603-7000	SY	PLASTIC FILTER FABRIC	2400.000	4.18	10049.26
	632-0003	EΑ	CHANGEABLE MESS SIGN, PORT, TP 3	2.000	9388.76	18777.52
	636-1036	SF	HWY SGN, TP1MAT, REFL SH TP 11	30.000	18.11	543.30
	636-2070	LF	GALV STEEL POSTS, TP 7	80.000	9.40	752.16
	641-1100		GUARDRAIL, TP T			
	641-1200		GUARDRAIL, TP W GUARDRAIL ANCHORAGE, TP 1	325.000		6903.18
	641-5001		GUARDRL ANCHORAGE, TP 1 GUARDRL ANCHOR, TP 12A, 31 IN, TANG, E/A	2.000	972.41	
	641-5015 643-8200			1250.000		5757.16
	653-1501		BARRIER FENCE (ORANGE), 4 FT THERMO SOLID TRAF ST 5 IN, WHI			2548.24 1376.00
	653-1502		THERMO SOLID TRAF ST 5 IN, WITT	800.000	1.60	1280.00
	654-1001		RAISED DUMT MARKERS TO 1	26 000	6.62	172.13
	657-1085		RAISED PVMT MARKERS TP 1 PRF PL SD PVT MKG, 8, B/W, TP PB PRF PL SD PVMT MKG, 8, B/Y, TPPB PERMANENT GRASSING	170 000	8.53	1450.10
0234			PRF PL SD PVMT MKG. 8. B/Y. TPPB	170.000	8.29	1409.30
0239	700-6910	7. (7)	PERMANENT GRASSING	3.000		3892.15
0244	700-7000	TN	AGRICULTURAL LIME	16.000	133.42	2134.78
0249	700-8000	TN	FERTILIZER MIXED GRADE	4.000	651.91	2607.65
	700-8100	LB	FERTILIZER NITROGEN CONTENT	245.000	3.41	837.76
0259	716-2000	SY		2477.000		3283.68

1212107.51

ESTIMATED COST:

CONTINGENCY PERCENT (0.0): 0.00 1212107.51 ESTIMATED TOTAL:

0/00/2016 PROJ. NO. N/A CALL NO. 0007057 P.I. NO. DATE 10/23/2018 INDEX (TYPE) DATE INDEX Link to AC Index: REG. UNLEADED Oct-18 2.724 http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex DIESEL 3.126 LIQUID AC 553.00 LIQUID AC ADJUSTMENTS PA=[((APM-APL)/APL)]xTMTxAPL Asphalt Price Adjustment (PA) 10318.98 \$ 10,318.98 Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% \$ 884.80 \$ 553.00 Monthly Asphalt Cement Price month project let (APL) Total Monthly Tonnage of asphalt cement (TMT) 31.1 **ASPHALT** %AC AC ton Tons Leveling 40 5.0% 2 12.5 OGFC 5.0% 0 5.0% 0 12.5 mm 9.5 mm SP 128 5.0% 6.4 12.4 25 mm SP 248 5.0% 10.3 206 19 mm SP 5.0% 31.1 622 **BITUMINOUS TACK COAT** Price Adjustment (PA) \$ 178.14 \$ 178.14 Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% \$ 884.80 Monthly Asphalt Cement Price month project let (APL) \$ 553.00 Total Monthly Tonnage of asphalt cement (TMT) 0.536887615 Bitum Tack Gals gals/ton tons 125 232.8234 0.53688762 **BITUMINOUS TACK COAT (surface treatment)** Price Adjustment (PA) 0 \$ Monthly Asphalt Cement Price month placed (APM) Max. Cap 60% \$ 884.80

\$

tons

0

0

0

0

553.00

10,497.12

Monthly Asphalt Cement Price month project let (APL)

SY

Gals/SY

0.20

0.44

0.71

Gals

0

0

0

gals/ton

232.8234

232.8234

232.8234

Total Monthly Tonnage of asphalt cement (TMT)

Bitum Tack

TOTAL LIQUID AC ADJUSTMENT

Single Surf. Trmt.

Double Surf.Trmt.

Triple Surf. Trmt

Concept ROW Cost Estimate

PI No. 0007057

Project Name: SR 16 at Short Creek, Preferred Alternative

Date: 10/30/2018

			_		
Land and Improvements	Agriculture	Residential	Commercial	Industrial	Notes
Estimate (\$/ac)	\$1,200	\$0 0.00	\$0 0.00	\$0 0.00	Enter Cost / Acre
Fee Simple Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Fee Simple Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
Perm Easement Area (ac)	0.23	0.00	0.00	0.00	Enter Acreage
Perm Easement Factor	75%	75%	75%	75%	Adjust Percentage as Appropriate
Perm Easement Estimate	\$207	\$0	\$0	\$0	CALCULATED FIELD
Temp Easement Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Temp Easement Factor	50%	50%	50%	50%	Adjust Percentage as Appropriate
Temp Easement Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
City Land Available for Swap (ac)	0.00	0.00	0.00	0.00	Enter Acreage (If required)
City Land Available for Swap Estimat	\$0	\$0	\$0	\$0	Enter Estimated Value (If required)
Proximity Damages	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Consequential Damages	\$ 0	\$0	\$0	\$0 \$0	Enter Fees and Provide Notes as Appropriate
Cost to Cures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Improvements	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Trade Fixtures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
PROPERTY TYPE TOTALS	\$207	\$0	\$0	\$0	CALCULATED FIELD
	Land and Ir	mprovements			
		Total	\$207		CALCULATED FIELD
Relocation	Quantity	Estimated Cost		Totals	
Residential Tenant (Qty of Tenants)	0	\$30,000		\$0	Adjust Qty / Costs as required
Residential Owner	0	\$50,000		\$0	Adjust Qty / Costs as required
Business Displacement (Qty)	0	\$45,000		\$0	Adjust Qty / Costs as required
Pro Rata Taxes	0	\$1,000		\$0	Adjust Qty / Costs as required
Prop Pin Replacement	0	\$1,250		\$0	Adjust Qty / Costs as required
PROPERTY TYPE TOTALS	0			\$0	CALCULATED FIELD
	Relocatio	on Sub Total	\$0		CALCULATED FIELD
Valuation Services	Agriculturo	Posidontial	Commercial	Industrial	
	Agriculture	Residential		Industrial	Adjust Davada as required
Appraisals (# of Parcels)	ک دع ۵۵	0 \$3,500	0 63.000	63,000	Adjust Parcels as required
Estimated Fee (per Parcel)	\$2,500	\$2,500	\$2,000	\$2,000	Enter Estimated Fee per Parcel
Total Appraisals	\$5,000	\$0 \$0	\$0 \$0	\$0 \$0	CALCULATED FIELD Enter Estimated Costs and Provide Notes
Specialty Reports	\$0 60	\$0 \$1.500	\$0 \$1.500	\$0 \$0	
Estimated Fees	\$0	\$1,500	\$1,500	\$0	Enter Estimated Fees and Provide Notes
PROPERTY TYPE TOTALS	\$5,000	\$1,500	\$1,500	\$0	CALCULATED FIELD
	Valuation Se	rvices Sub Total	\$8,000		CALCULATED FIELD
Logal Camileae	Donasta	Estimated For-		Totala	
Legal Services	Parcels	Estimated Fees		Totals	Adjust Darcole / Food on required (using best independ)
Meeting with Attorney	2	\$125 \$200		\$250	Adjust Parcels / Fees as required (using best judgement)
Preliminary Titles	2	\$200 \$200		\$400 \$600	Adjust Parcels / Fees as required
Closing and Final Title	2	\$300 \$50		\$600 \$100	Adjust Parcels / Fees as required
Recording Fees	2 0	\$50 \$20,000		\$100 \$0	Adjust Parcels / Fees as required Adjust Parcels / Fees as required
Condemnation	U	\$30,000		\$0	Aujust Faiteis / Fees as lequileu
	Legal Servi	ces Sub Total	\$1,350		CALCULATED FIELD
Administrative	Parcels	Man Hours/Parcel		Totals	
Pre-Acquisition	2	40		\$4,000	Adjust Parcels / Fees as required
Acquisition	2	100		\$10,000	Adjust Parcels / Fees as required
Administrative Appeals	2	50		\$5,000	Calculates as 15% of Acq Parcel Count (Adjust if Necessary)
	Administra	tive Sub Total	\$19,000		CALCULATED FIELD
Contingonou					
Contingency Overall Contingency		4			5 + D + (0 + 1 + 000/)
over an Contingency	າ∩0/:	CE 711			Enter Dercentage for Contingency (Detault - 2000)
	20%	\$5,711			Enter Percentage for Contingency (Default = 20%)

Total Estimated Costs \$34,268 CALCULATED FIELD

Updated 23Jan2015

Concept ROW Cost Estimate

PI No. 0007057

Project Name: SR 16 at Short Creek, ALT A

Date: 05/30/2018

Land and Improvements	Agriculture	Residential	Commercial	Industrial	Notes
Estimate (\$/ac)	\$1,200	\$0 0.00	\$0 0.00	\$0 0.00	Enter Cost / Acre
Fee Simple Area (ac)	2.85	0.00	0.00	0.00	Enter Acreage
Fee Simple Estimate	\$3,416	\$0	\$0	\$0	CALCULATED FIELD
Perm Easement Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Perm Easement Factor	50%	50%	50%	50%	Adjust Percentage as Appropriate
Perm Easement Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
Temp Easement Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Temp Easement Factor	25%	25%	25%	25%	Adjust Percentage as Appropriate
Temp Easement Estimate	\$0	\$0	\$0	\$0	CALCULATED FIELD
City Land Available for Swap (ac)	0.00	0.00	0.00	0.00	Enter Acreage (If required)
City Land Available for Swap Estimat	\$0 \$0	\$0 \$0	\$0	\$0 \$0	Enter Estimated Value (If required)
Proximity Damages	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	Enter Fees and Provide Notes as Appropriate
Consequential Damages	\$0 60	\$0 \$0	\$0 \$0	\$0 \$0	Enter Fees and Provide Notes as Appropriate
Cost to Cures	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	Enter Fees and Provide Notes as Appropriate
Improvements	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	Enter Fees and Provide Notes as Appropriate
Trade Fixtures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
PROPERTY TYPE TOTALS	\$3,416	\$0	\$0	\$0	CALCULATED FIELD
	Land and Ir	mprovements			CALCINATED FIELD
		Total	\$3,416		CALCULATED FIELD
Dolosetis	Ougasti	Estimate - C		Takala	
Relocation	Quantity	Estimated Cost		Totals	Adjust Oty / Costs as required
Residential Owner	0	\$30,000 \$50,000		\$0 \$0	Adjust Qty / Costs as required
Residential Owner	0	\$50,000 \$45,000		\$0 \$0	Adjust Qty / Costs as required
Business Displacement (Qty)	0	\$45,000 \$1,000		\$0 \$0	Adjust Qty / Costs as required
Pro Rata Taxes	0	\$1,000 \$1,350		\$0 \$0	Adjust Qty / Costs as required
Prop Pin Replacement	0	\$1,250		\$0	Adjust Qty / Costs as required
PROPERTY TYPE TOTALS	0			\$0	CALCULATED FIELD
	Relocatio	on Sub Total	\$0		CALCULATED FIELD
Valuation Services	Agriculture	Residential	Commercial	Industrial	
Appraisals (# of Parcels)	3	0	0	0	Adjust Parcels as required
Estimated Fee (per Parcel)	\$2,500	\$2,500	\$2,000	\$2,000	Enter Estimated Fee per Parcel
Total Appraisals	\$7,500	\$0	\$0	\$0	CALCULATED FIELD
Specialty Reports	\$0	\$0	\$0	\$0	Enter Estimated Costs and Provide Notes
Estimated Fees	\$0	\$1,500	\$1,500	\$0	Enter Estimated Fees and Provide Notes
PROPERTY TYPE TOTALS	\$7,500	\$1,500	\$1,500	\$0	CALCULATED FIELD
	valuation Se.	rvices Sub Total	\$10,500		CALCULATED FIELD
Legal Services	Parcels	Estimated Fees		Totals	
Meeting with Attorney	3	\$125		\$375	Adjust Parcels / Fees as required (using best judgement)
Preliminary Titles	3	\$200		\$600	Adjust Parcels / Fees as required
Closing and Final Title	3	\$300		\$900	Adjust Parcels / Fees as required
Recording Fees	3	\$50		\$150	Adjust Parcels / Fees as required
Condemnation	0	\$30,000		\$0	Adjust Parcels / Fees as required
	Legal Servi	ices Sub Total	\$2,025		CALCULATED FIELD
Administrativa	Darcela	Man Hours/Dear-I		Totala	
Administrative	Parcels	Man Hours/Parcel		Totals	Adjust Parcels / Face as required
Pre-Acquisition	3	40 100		\$6,000 \$15,000	Adjust Parcels / Fees as required
Administrative Appeals	3	100 50		\$15,000 \$7,500	Adjust Parcels / Fees as required
Administrative Appeals	3	50		\$7,500	Calculates as 15% of Acq Parcel Count (Adjust if Necessary)
	Administra	tive Sub Total	\$28,500		CALCULATED FIELD
Contingency					
Overall Contingency	20%	\$8,888			Enter Percentage for Contingency (Default = 20%)
5.5.5 Contingency	20/0	70,000			S. Seriage for Contingency (Detault - 20/0)

Total Estimated Costs \$53,329 CALCULATED FIELD

Updated 23Jan2015

Concept ROW Cost Estimate

PI No. 0007057

Project Name: SR 16 at Short Creek, ALT B

Date: 05/30/2018

land or dive	A	Daniel III	Comment	المارية المارية	N
Land and Improvements	Agriculture	Residential	Commercial	Industrial	Notes
Estimate (\$/ac)	\$1,100	\$0 0.00	\$0 0.00	\$0 0.00	Enter Cost / Acre
Fee Simple Area (ac)	3.44	0.00	0.00	0.00	Enter Acreage
Fee Simple Estimate	\$3,788	\$0 0.00	\$0 0.00	\$0	CALCULATED FIELD
Perm Easement Area (ac)	0.00	0.00	0.00	0.00	Enter Acreage
Perm Easement Factor	50% \$0	50%	50%	50%	Adjust Percentage as Appropriate
Perm Easement Estimate	0.00	\$0 0.00	\$0 0.00	\$0 0.00	CALCULATED FIELD
Temp Easement Area (ac)	25%	25%	25%	25%	Enter Acreage
Temp Easement Factor Temp Easement Estimate	\$0	\$0	\$0	\$0	Adjust Percentage as Appropriate CALCULATED FIELD
City Land Available for Swap (ac)	0.00	0.00	0.00	0.00	Enter Acreage (If required)
City Land Available for Swap (ac)	\$0	\$0	\$0	\$0	Enter Estimated Value (If required)
Proximity Damages	\$0 \$0	\$ 0	\$0 \$0	\$0	Enter Fees and Provide Notes as Appropriate
Consequential Damages	\$0	\$0 \$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Cost to Cures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Improvements	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
Trade Fixtures	\$0	\$0	\$0	\$0	Enter Fees and Provide Notes as Appropriate
PROPERTY TYPE TOTALS	\$3,788	\$0	\$0	\$0	CALCULATED FIELD
PROPERTY TIPE TOTALS	33,766	30	ŞU	30	CALCOLATED FIELD
		nprovements			CALCULATED FIELD
	Sub	Total	\$3,788		
Relocation	Quantity	Estimated Cost		Totals	
Residential Tenant (Qty of Tenants)	0	\$30,000		\$0	Adjust Qty / Costs as required
Residential Owner	0	\$50,000		\$0	Adjust Qty / Costs as required
Business Displacement (Qty)	0	\$45,000		\$0	Adjust Qty / Costs as required
Pro Rata Taxes	0	\$1,000		\$0	Adjust Qty / Costs as required
Prop Pin Replacement	0	\$1,250		\$0	Adjust Qty / Costs as required
PROPERTY TYPE TOTALS	0			\$0	CALCULATED FIELD
	Relocatio	n Sub Total	\$0		CALCULATED FIELD
Valuation Comicae	A I	Danisla sakial	C	la di sakatal	
Valuation Services	Agriculture	Residential	Commercial	Industrial	Adiast Develope as assisted
Appraisals (# of Parcels)	¢3 E00	0 \$3.500	0 \$2,000	0 62,000	Adjust Parcels as required
Estimated Fee (per Parcel)	\$2,500 \$2,500	\$2,500 \$0	\$2,000 \$0	\$2,000	Enter Estimated Fee per Parcel
Total Appraisals Specialty Reports	\$2,500 \$0	\$0 \$0	\$0 \$0	\$0 \$0	CALCULATED FIELD Enter Estimated Costs and Provide Notes
Estimated Fees	\$0 \$0	\$1,500	\$1,500	\$0 \$0	Enter Estimated Costs and Provide Notes Enter Estimated Fees and Provide Notes
Littliuted rees	ÇÜ	\$1,500	71,300	ŢŪ.	Litter Estimated rees and riovide Notes
PROPERTY TYPE TOTALS	\$2,500	\$1,500	\$1,500	\$0	CALCULATED FIELD
	Valuation Se	rvices Sub Total	\$5,500		CALCULATED FIELD
Legal Services	Parcels	Estimated Fees		Totals	
Meeting with Attorney	1	\$125		\$125	Adjust Parcels / Fees as required (using best judgement)
Preliminary Titles	1	\$200		\$200	Adjust Parcels / Fees as required
Closing and Final Title	1	\$300		\$300	Adjust Parcels / Fees as required
Recording Fees	1	\$50		\$50	Adjust Parcels / Fees as required
Condemnation	0	\$30,000		\$0	Adjust Parcels / Fees as required
	Legal Servi	ces Sub Total	\$675		CALCULATED FIELD
Administrative	Parcels	Man Hours/Parcel		Totals	
Pre-Acquisition	1	40		\$2,000	Adjust Parcels / Fees as required
Acquisition	1	100		\$5,000	Adjust Parcels / Fees as required
Administrative Appeals	1	50		\$2,500	Calculates as 15% of Acq Parcel Count (Adjust if Necessary)
	Administra	tivo Sub Total	¢0 500		
	Auministra	tive Sub Total	\$9,500		CALCULATED FIELD
Contingency					
Overall Contingency	20%	\$3,893			Enter Percentage for Contingency (Default = 20%)

Total Estimated Costs \$23,355 CALCULATED FIELD

Updated 23Jan2015

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No:

N/A

Office: Date:

Office: Tennille - Utilities

5-16-2018

County

P.I. #

Warren

0007057

Description:

SR 16 at Short Creek, 6.5 miles Southwest of Warrenton – Alt C

FROM

James L. Lindsey, District Utilities Manager

TO

Mindy Sanders, Project Manager

SUBJECT PRELIMINARY UTILITY COST ESTIMATE

A review of utilities located on the above referenced project has been conducted without a design concept.. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

Utility Owner	Reimbursable	Non- Reimbursable	Estimate Based on
AT&T (Distribution	\$0.00	\$6,810.00	On Site Assessment by GDOT
Total 0.00%	\$0.00	\$6,810.00	

Update All

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact Tonia Parker at 478-553-3386.

cc: Patrick Allen, P.E., State Utilities Administrator Yulonda Pride-Foster, State Utilities Preconstruction Manager Tonia Hinton, Utilities Preconstruction Specialist Todd Price, P.E., District Preconstruction Manager

Wilton, Darren

From: David Smith <davidsmith@ecologicalsolutions.net>

Sent: Friday, July 13, 2018 12:06 PM

To: Wilton, Darren

Subject: PI 0007057, Warren County

Darren:

Based on the Detour option (Alt C), it does not appear that there will be any mitigation required for the project. This alternative looks like it will avoid all impacts to the stream that flows parallel to SR 16. The impacts associated with the replacement of the existing bridge should remain under 100 linear feet of stream and will not trigger required mitigation.

Thanks,

David W. Smith, CPESC Ecological Solutions, Inc. 630 Colonial Park Drive, Suite 200 Roswell, GA 30075

Office: 770-998-7848 Ext. 107

Fax: 770-998-5606 Cell: 678-898-6868

www.ecologicalsolutions.net

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Concept Utility Report

Project Number: CSBRG-0007-00(057)	District: 2				
County: Warren	Prepared By: Tonia Parker				
P.I. # <u>0007057</u>	Date: March 20, 2018				
Project Description: SR 16 at Short Creek, 6.5 mile	es Southwest of Warrenton (Alt C)				
The information provided herein has been gathered fror	m Georgia811 and/or field visits and serves as an estimate.				
Nothing contained in this report is to be used as a substitute for 1st Submission or SUE.					
Are SUE services recommended? No Level:	A B C D				
Public Interest Determination (PID): Autom	atic Mandatory Consideration				
⊠ No Use	Exempt				
Is a separate utility funding phase recommended?	? <u>No</u>				
Existing Facilities: AT&T - Aerial and Buried Fiber	Optic Cable				
Potential: Project (Schedule/Budget) Impacts: No	2				
Capital Improvement Projects (Utilities) Anticipat	ed in the Area: No				
Project Specific Recommendations for Avoidance	/Mitigation: No				
Right of Way Coordination: No					
Environmental Coordination: No					
Additional Remarks: <u>N/A</u>					

The following utilities have facilities within the project limits. Utilities have been located using Georgia811 and/or field visits.

Existing Facilities / Appurtenances	Approximate Limits (Station / Offset)	Reimbursable Cost (est.)	Non- reimbursable Cost (est.)	Facilities to Avoid (Station / Offeset)	Facility Retention Recommended	Comments
AT&T	0+00 - 4+54	\$0.00	\$6,810			Aerial & Buried Fiber Optic Cable on Southwestern side of highway @ \$15 per ft

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Warren County, OFFICE Planning

P.I. # 0007057 **DATE** August 30, 2018

FROM Paul Tanner, State Transportation Planning Administrator

TO Kimberly Nesbitt, State Program Delivery Administrator

Attention: Mindy Sanders

SUBJECT Reviewed Design Traffic for bridge replacement on SR 16/Macon Highway

@ Short Creek in Warren County

We have reviewed the Design Traffic for the above project. The Design Traffic is approved. The approved Design Traffic is furnished in the attached

documents: 0007057.SR 16 Traffic Data Report.180828.pdf

If you have any questions concerning this information, please contact Andre Washington at 404-631-1925.

Keith McCage HNTB Design Traffic Consultant to GDOT 404-946-5731

RPT/KAM



(912) 231-0044 Fax (912) 231-0046

www.moffattnichol.com

MEMORANDUM

Date: July 12, 2018

To: Georgia Department of Transportation, Office of Planning

Attention: Daniel Funk

From: R. Christopher Marsengill, PE, PTOE

Subject: Traffic Forecast for PI 0007057, Warren County, Bridge ID 301-0004-0

SR 16 / Macon Highway @ Short Creek

CC: Terry McKloski, AICP

Mindy Sanders, PE Darren Wilton, PE

M&N Job No.: 10016-01

Moffatt & Nichol is furnishing Traffic Forecast for the above project as follows:

No Build = Build	2018 (Existing Year)	2022 (Base Year)	2024 (Base Year +2)	2042 (Design Year)	2044 (Design Year +2)			
AADT	1,775	1,850	1,875	2,250	2,300			
DDHV (AM/PM)	70 / 80	75 / 85	75 / 85	90 / 100	90 / 105			
K% (AM/PM)	7% / 8%							
D% (AM/PM)	57% / 55%							
24 HR. T% - S.U.	16.0%	Same as Existing Year						
24 HR. T% - COMB.	7.0%							
24 HR. T% - TOTAL	23.0%							
T% - S.U. (AM/PM)	19.0% / 16.0%							
T% - COMB. (AM/PM)	4.0% / 6.5%							
T% - TOTAL (AM/PM)	23.0% / 22.5%							

Please contact R. Christopher Marsengill, PE, PTOE at cmarsengill@moffattnichol.com or 912-231-0044 with any questions regarding this information.





(912) 231-0044 www.moffattnichol.com

MEMORANDUM

To: Georgia Department of Transportation Office of Planning

Attention: Andre Washington

From: R. Christopher Marsengill, PE, PTOE

CC: Terry McKloski, AICP

Mindy Sanders, PE Darren Wilton, PE

Date: July 12, 2018

Subject: Traffic Data Report

PI No. 0007057, Warren County – SR 16 / Macon Highway @ Short Creek

M&N Job No.: 10016-01

Introduction

This Georgia Department of Transportation (GDOT) project proposes replacing the SR 16 / Macon Highway bridge over Short Creek in Warren County, Structure ID 301-0004-0. The bridge was built in 1937 and consists of two spans of steel beams on concrete caps with steel piles. The bridge was designed using an H-15 vehicle, which is below current design standards. Due to the age of the structure, the structural integrity of the bridge pertaining to the design vehicle, and the unknown foundation of the substructure, replacement of this 80-year-old bridge is recommended.

There are no signalized or unsignalized intersections within the project limits. The project will not include new capacity or reconfiguration of the roadway.

Moffatt & Nichol (M&N) has prepared traffic forecasts in accordance with the requirements in the *GDOT Design Traffic Forecasting Manual, Version 1.3* dated January 25, 2018. M&N has prepared Existing Year, Base Year (project opening year, 2022), Base Year + 2 (2024), Design Year (Base Year + 20, 2042), and Design Year + 2 (2044) traffic forecasts. The No-Build scenario will be the same as Build scenario because the project does not add capacity or change the configuration of the roadway. All future traffic was forecasted at the Annual Average Daily Traffic (AADT) level by applying the growth rate to the Existing Year traffic. Future AADTs were utilized to calculate Design Hour Volumes (DHV) using appropriate factors for the percentage of traffic appearing in the peak hour (K) and the percentage of traffic traveling in a peak direction (D). All traffic was balanced throughout the corridor. The GDOT Office of Planning approved the traffic data collection plan in March 2018, and the traffic counts were conducted from April 11, 2018 to April 12, 2018. The approved count map is included as **Figure 1**.



This memorandum, the Traffic Data Report, includes the following:

- Traffic count data collection locations, detailed in Figure 1, and raw count data, located in Appendix B
- Existing 2018 Average Daily Traffic (ADT), Average Annual Daily Traffic (AADT), and Design Hour Traffic (DHV), located in **Table 2**
- The K and D factors calculated from the traffic counts, located in **Table 2**
- Peak hour and daily truck percentages split into single unit trucks (categories 4-7) and combo unit trucks (categories 8-13), located in **Table 3**
- Data to support the proposed growth factor to be used in forecasting future traffic
- Georgia Statewide model plots used for growth rate analysis located in Appendix A
- Traffic forecast based upon the recommended growth rate, located in **Table 5**

Existing Conditions

This existing SR 16 / Macon Highway is a 2-lane, undivided, rural minor arterial throughout the limits of the project. The bridge was built in 1937, and the deck is in fair condition with heavy cracking with efflorescence throughout. The superstructure is in fair condition with minor corrosion on all beams with heavy pitting and corrosion noted in the bearing areas. The substructure is in satisfactory condition with minor cracking in the concrete caps. This bridge is classified as having an unknown foundation and therefore could be at risk for scour. Due to the age of the structure, the structural integrity of the bridge pertaining to the design vehicle, and the unknown foundation of the substructure, replacement of this 80-year-old bridge is recommended.

Summary of Field Visit Observations

Field observations in the study area revealed nothing unusual about travel through the project limits. Pedestrian and bike traffic is nonexistent within the project limits.

Historical Traffic Volume Data

The GDOT count database includes one relevant traffic counter location within the project limits. **Table 1** summarizes actual count data available for count station 301-0136.

Table 1 - Historical Traffic Counts from GDOT Count Database

Station	Location	Year	AADT	Truck %
301-0136	De deble en el eletion en CD 46	2016	27.0%	
	Portable count station on SR 16 west of the bridge location	2014	1,330	26.0%
	west of the shage location	2012	1,330 2	17.9%

Existing Traffic Volumes and Truck Percentages

A 48-hour, directional class count was conducted from April 11, 2018 to April 12, 2018 at the location illustrated in **Figure 1**. The count was collected and analyzed in accordance with the *GDOT Design Traffic Forecasting Manual, Version 1.3* January 25, 2018, to develop the ADT, AADT, DHV, daily truck percentages, and truck peak hour percentages. The 48-hour count data was used to calculate an ADT,



and the GDOT Recommended 2016 Traffic Factors for "02 - Rural Minor Arterial" were applied to the ADT to generate the AADT. These factors included a Monthly Factor of 0.98 (April), and a Daily Factor of 0.99 for Tuesday and 0.98 Wednesday. The K factors were applied to the AADT to derive DHVs. Based on the counts, the peak hours (PH) begin at 07:00 AM (northbound) and 4:00 PM (southbound), and the PH volumes were used to calculate the peak hour factor (K) and the directional factor (D). The D factors were applied to the DHVs to derive a peak direction volume (DDHV), and to calculate a corresponding off-peak directional volume. **Table 2** summarizes the count data and calculated results.

Table 2: Existing Traffic Data and Calculations

ID	Begin Peak	NB	SB	Total	K	D	ADT	AADT	DHV	DDHV	Off- Peak
C1	7:00 AM	70	50	120	0.07	0.57	1 040	1 775	125	70	55
C1	4:00 PM	65	80	145	0.08	0.55	1,840	1,775	140	80	60

Truck percentages were calculated using the average of the 48-hour classification counts. The daily truck percentages were derived for truck classes 4-7 (single unit trucks) and classes 8-13 (combo unit trucks), and total truck percentage is all classes 4-13. Truck percentages for the same classification scheme were extracted from the peak hours to derive the peak hour truck percentages. **Table 3** summarizes the existing truck data for the corridor.

Table 3: Existing Truck Data

	Begin	Peak	-Hour Tr	ucks	Daily Trucks			
ID	Peak	SU	СОМВ	Total	SU	СОМВ	Total	
C1	7:00 AM	19.0%	4.0%	23.0%	16.0%	7.0%	22.0%	
CI	4:00 PM	16.0% 6.5%		22.5%	10.0%	7.0%	23.0%	

Growth Rate Methodology

GDOT Historical Traffic Volume Data Growth

GDOT collects annual traffic counts statewide which can be utilized to calculate historical growth trends. Based on trends calculated from the count stations in **Table 1**, Station number 301-0136 shows a growth rate of 17.62% when trending between the years of 2014 and 2016. When comparing the 2016 historic data to the April 2018 count data in **Table 3**, the calculated growth rate is -7.48%. Neither of these rates seems reasonable given the characteristics of this corridor. According to GDOT District 1 Traffic Operations, there is no significant development pending in the vicinity of the proposed project that would support a growth rate of 17.62%. Further, a projected 7.48% decrease in traffic volumes also seems unreasonable. Therefore, the growth rates calculated from the historic traffic data volumes do not appear to be reliable.

Georgia Governor's Office of Planning and Budget Population Growth

The most recent census for Warren County Georgia is the 2010 census, which reports a counted population of 5,834. The US Census Bureau's Population Estimates Program for 2017 estimated a population of 5,303 for Warren County, an overall decrease of 9%, which translates to approximately 1.35% per year. Further research shows that this trend is expected to continue through the Design Year and Design Year + 2. Data obtained from the Georgia Governor's Office of Planning and Budget shows a



population decrease between -0.83% and -1.02% per year. **Table 4** displays the Georgia Governor's Office of Planning and Budget population projections for Warren county and the per year growth rate forecasted. However, there is evidence that this corridor is used by populations outside of Warren County, and a decrease in traffic volumes is not anticipated.

Table 4: Warren County Population Projection

YEAR	2018	2022	2024	2040	2045
Population	5,317	5,143	5,054	4,329	4,112
Growth Rate		-0.83%	-0.87%	-0.96%	-1.02%

Georgia Statewide Travel Demand Model

The Georgia Statewide Travel Demand Model (GSTDM) was also used to help estimate a corridor growth rate. For the 2010 base year network and the 2040 existing + committed loaded networks, the GSTDM demonstrates a growth rate of 0.79% south of the project and 1.16% north of the project. Averaging these rates yields a growth rate of 0.98%. **Appendix A** includes the GSTDM network plots and growth rate analysis.

<u>M&N proposes a growth rate of 1.0% for this bridge replacement project</u> based on the GSTDM projections and the project corridor characteristics.

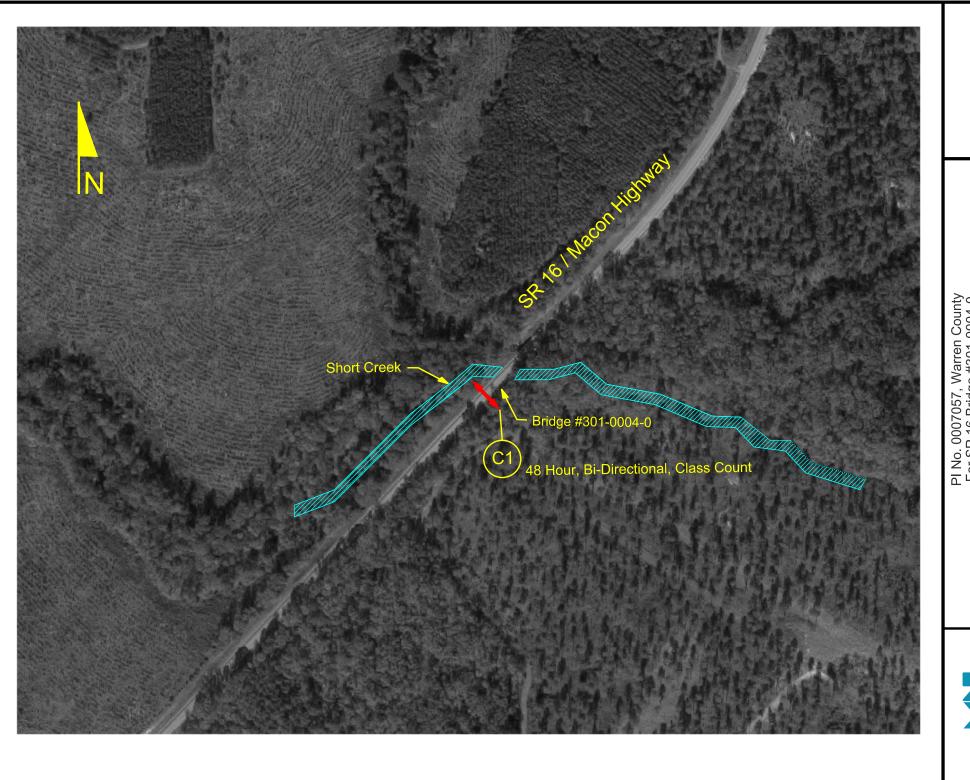
Review Process and Next Steps

M&N is submitting this traffic memorandum to the GDOT Office of Planning for review and concurrence. **Table 5** is included in a Traffic Forecast Memo attached to this submittal for consideration if the proposed projection methodology is approved. The recommended growth rate of 1.0% was applied to the 2018 existing traffic to develop the Base Year (project opening year - 2022), Base Year+2 (2024), Design Year (Base Year+20 - 2042), and Design Year+2 (2044) daily and peak hour traffic forecasts for a Build Scenario.

Table 5: Traffic Forecast

No Build = Build	2018 (Existing Year)	2022 (Base Year)	2024 (Base Year +2)	2042 (Design Year)	2044 (Design Year +2)
AADT	1,775	1,850	1,875	2,250	2,300
DDHV (AM/PM)	70 / 80	75 / 85	75 / 85	90 / 100	90 / 105
K% (AM/PM)	7% / 8%				
D% (AM/PM)	57% / 55%				
24 HR. T% - S.U.	16.0%				
24 HR. T% - COMB.	7.0%		Como oo E	vioting Voor	
24 HR. T% - TOTAL	23.0%		Same as E	xisting Year	
T% - S.U. (AM/PM)	19.0% / 16.0%				
T% - COMB. (AM/PM)	4.0% / 6.5%				
T% - TOTAL (AM/PM)	23.0% / 22.5%				





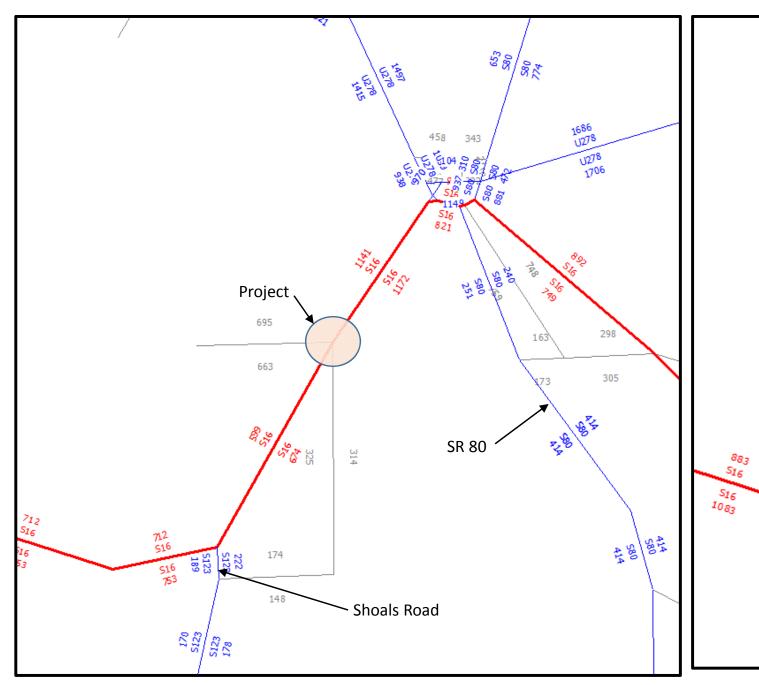
PI No. 0007057, Warren County For SR 16 Bridge #301-0004-0

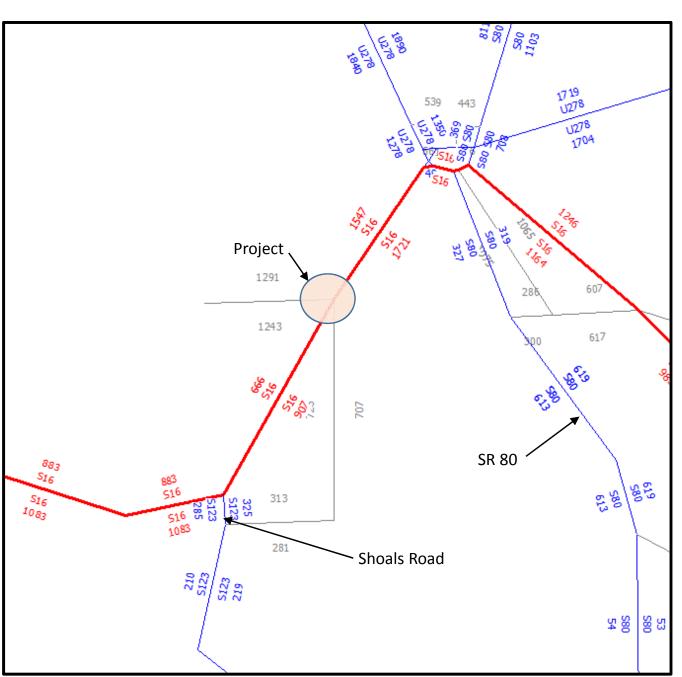
Figure 1: Traffic Count Location Map

Appendix A Georgia Statewide Travel Demand Model Growth Rate Analysis



PI No. 0007057, Warren County SR 16 / Macon Highway @ Short Creek Georgia Statewide Model Plots





GA Statewide Model 2010 Base Year

South of Project

2010 Mod	lel Volumes	2040 Mod	Growth Rate		
1-Way	2-Way	1-Way	2-Way		
599	1 272	666	1 572	0.71%	
674	1,273	907	1,573		

GA Statewide Model 2040 EC

North of Project

			•			
2010 Mod	el Volumes	2040 Mod	Growth Rate			
1-Way	2-Way	1-Way	2-Way			
1,141	2 212	1,547	2 260	1.16%		
1,172	2,313	1,721	3,268			

Appendix B Traffic Count Data



All Traffic Data Services, Inc 1336 Farmer Road Covington, Ga 30012

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

NB														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/11/18	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	1	2	0	0	0	0	0	0	0	0	0	0	3
00:45	0	11	0	0	0	0	0	0	0	0	0	0	0	1
	0	2	3	0	0	0	0	0	0	0	0	0	0	5
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	1	0	0	0	0	1
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	1	0	0	0	0	1
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	1	0	0	1	0	0	0	0	0	0	0	0	2
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00.00	0	1	0	0	2	0	0	0	0	0	0	0	0	3
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0 1	0	0	0	0	0	0	0	0	0	0	<u> </u>
04.00														
04:00	0	2 4	0	0	1	0	0	0	0	0	0	0	0	3
04:15 04:30	1			0		1	0	0	0	0	0	0	0	4
04:45	0	3	0	0	0	0	0	0	1	0	0	0	0	6 6
04.45	1	12	1	0	2	1	0	0	2	0	0	0	0	19
05:00	0	5	0	1	0	0	0	0	1	1	0	0	0	8
05:15	0	4	1	1	0	0	0	0	0	0	0	0	0	6
05:30	0	5	4	0	0	0	0	0	0	0	0	0	0	9
05:45	3	3	2	0	1	1	0	0	1	0	0	0	0	11
00.40	3	17	7	2	1	1	0	0	2	1	0	0	0	34
06:00	0	2	3	0	3	0	0	0	1	0	0	0	0	9
06:15	0	5	3	0	1	0	0	0	0	0	0	0	0	9
06:30	0	6	3	1	3	0	0	Ö	0	0	0	0	0	13
06:45	0	7	2	0	3	0	0	1	1	0	0	0	0	14
	0	20	11	1	10	0	0	1	2	0	0	0	0	45
07:00	1	4	8	1	2	0	0	0	0	0	0	0	0	16
07:15	0	17	2	0	0	0	0	1	0	0	0	0	0	20
07:30	1	6	2	0	2	1	0	1	0	0	0	0	0	13
07:45	0	6	3	0	3	0	0	0	1	0	0	0	0	13
	2	33	15	1	7	1	0	2	1	0	0	0	0	62
08:00	1	6	1	1	0	1	0	0	1	0	0	0	0	11
08:15	0	6	0	0	2	0	0	0	0	0	0	0	0	8
08:30	1	6	3	0	1	0	0	0	0	0	0	0	0	11
08:45	0	9	11	0	0	0	0	0	1	0	0	0	0	11
	2	27	5	1	3	1	0	0	2	0	0	0	0	41
09:00	0	10	3	0	0	1	0	0	0	0	0	0	0	14
09:15	0	12	5	0	2	0	0	1	0	0	0	0	0	20
09:30	0	12	3	0	1	0	0	1	1	0	0	0	0	18
09:45	0	8	3	0	0	0	0	0	1_	0	0	0	0	12
40.00	0	42	14	0	3	1	0	2	2	0	0	0	0	64
10:00	0	16	1	0	4	0	0	2	1	0	0	0	0	24
10:15	0	6	5	0	1	0	0	1	0	0	0	0	0	13
10:30	0	6	2	0	0	0	0	0	0	0	0	0	0	8
10:45	0	11	5	<u>1</u>	7	0	0	1	1	0	0	0	0	21
11.00	0	39	13			0	0	4	2	0	0		0	66
11:00	0	9	2	1	0	0	0	1	0	0	0	0	0	13
11:15 11:30	0	8 9	3	1	2 1	2	0	1	0	0	0	0	0	15 17
11:30	0	9	2	0	2	0	0	0	0	0	0	0	0	13
11.45	1	35	10	2	5	2	0	3	0	0	0	0	0	58
Total	9	228	80	8	40	7	0	12	14	1	0	0	0	399
Percent	2.3%	57.1%	20.1%	2.0%	10.0%	1.8%	0.0%	3.0%	3.5%	0.3%	0.0%	0.0%	0.0%	333
. Glociit	2.070	37.170	20.170	2.070	10.070	1.070	0.070	5.070	5.576	3.570	0.070	0.070	0.070	

Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

NB														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
12 PM	0	6	2	0	2	0	0	0	0	0	0	0	0	10
12:15	0	11	1	0	2	0	0	1	1	0	0	0	0	16
12:30	0	10	1	1	2	0	0	0	1	0	0	0	0	15
12:45	0	10	1	0	0	0	0	0	0	0	0	0	0	11
12.45	0	37	5	1	6	0	0	1	2	0	0	0	0	52
12.00														12
13:00	0	7	1	1	2	0	0	1	1	0	0	0	0	13
13:15	4	16	2	0	2	0	0	1	0	0	0	0	0	25
13:30	0	5	1	0	0	0	0	1	0	0	0	0	0	7
13:45	1_	11	2	1_	2	0	0	0	1	0	0	0	0	18
	5	39	6	2	6	0	0	3	2	0	0	0	0	63
14:00	0	10	4	0	0	0	0	0	0	0	0	0	0	14
14:15	0	4	2	0	0	0	0	1	0	0	0	0	0	7
14:30	0	9	5	0	5	0	0	0	0	0	0	0	0	19
14:45	0	13	4	0	1	0	0	2	0	0	0	0	0	20
	0	36	15	0	6	0	0	3	0	0	0	0	0	60
15:00	0	6	2	0	0	1	0	2	2	0	0	0	0	13
15:15	0	6	4	0	1	2	0	0	0	0	0	0	0	13
15:30	0	6	2	0	1	0	0	0	1	0	0	0	0	10
15:45	0	8	5	0	0	0	0	1	2	0	0	0	0	16
	0	26	13	0	2	3	0	3	5	0	0	0	0	52
16:00	0	9	3	0	3	2	0	0	0	0	0	0	0	17
16:15	0	8	2	0	1	1	0	1	0	0	0	0	0	13
16:30	0	7	3	1	1	0	0	1	0	0	0	0	0	13
16:45	0	12	7	0	3	0	0	0	1	0	0	0	0	23
	0	36	15	1	8	3	0	2	1	0	0	0	0	66
17:00	0	18	0	0	0	0	0	2	1	0	0	0	0	21
17:15	0	7	1	0	1	0	0	0	0	0	0	0	0	9
17:30	0	6	2	0	3	1	0	3	0	0	0	0	0	15
17:45	0	10	3	0	3	1	0	1	0	0	0	0	0	18
17.45	0		6	0	7	2		6	1	0		0		63
40.00		41					0				0		0	
18:00	0	10	2	0	1	0	0	0	0	0	0	0	0	13
18:15	0	13	1	0	3	0	0	1	0	0	0	0	0	18
18:30	0	6	3	0	1	0	0	0	0	0	0	0	0	10
18:45	0	10	0	0	1	0	0	0	0	0	0	0	0	11
	0	39	6	0	6	0	0	1	0	0	0	0	0	52
19:00	0	9	3	0	1	0	0	0	0	0	0	0	0	13
19:15	0	8	1	0	0	0	0	1	0	0	0	0	0	10
19:30	0	4	0	0	1	0	0	0	0	0	0	0	0	5
19:45	0	5	1	0	1	0	0	1	0	0	0	0	0	8
	0	26	5	0	3	0	0	2	0	0	0	0	0	36
20:00	0	7	3	0	1	0	0	1	0	0	0	0	0	12
20:15	0	4	0	0	1	0	0	0	0	0	0	0	0	5
												-		
20:30	0	8	1	0	0	0	0	0	0	0	0	0	0	9
20:45	0	3	2	0	1_	0	0	1_	1_	0	0	0	0	8
	0	22	6	0	3	0	0	2	1	0	0	0	0	34
21:00	1	3	1	0	0	1	0	0	0	0	0	0	0	6
21:15	0	2	1	0	0	0	0	0	0	0	0	0	0	3
21:30	0	5	0	0	0	0	0	0	2	0	0	0	0	7
21:45	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	1	11	3	0	0	1	0	0	2	0	0	0	0	18
22:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
22:15	0	6	4	0	0	0	0	0	0	0	0	0	0	10
22:30	0	0	0	0	0	0	0	0	1	0	0	0	0	10
22:45	0	4	0	0	0	0	0	0		0	0	0	0	4
22.45									0					
00.00	0	15	5	0	0	0	0	0	1	0	0	0	0	21
23:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
23:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
23:30	0	2	1	0	0	0	0	1	0	0	0	0	0	4
23:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
-	0	7	2	0	0	0	0	1	0	0	0	0	0	10
Total	6	335	87	4	47	9	0	24	15	0	0	0	0	527
Percent	1.1%	63.6%	16.5%	0.8%	8.9%	1.7%	0.0%	4.6%	2.8%	0.0%	0.0%	0.0%	0.0%	
. 0.00.11	,0	33.370	. 0.0 70	3.370	3.370	70	3.370		2.570	0.070	3.370	0.070	0.075	

Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

NB Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	
	D.:			_										-
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/12/18	0	2	0	0	0	0	0	0	0	0	0	0	0	2
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	0	3	0	0	0	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	1	0	0	0	0	0	1
01:30	0	0	1	0	0	0	0	0	1	0	0	0	0	2
01:45	1_	0	0	0	0	1_	00	0	0	0	0	0	0	2
	1	0	1	0	0	1	0	1	1	0	0	0	0	5
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	1	1	0	0	0	0	2
03:45	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	0	1	1	0	0	0	0	1	1	0	0	0	0	4
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
04:15	0	5	0	0	1	0	0	0	0	0	0	0	0	6
04:30	Ö	3	2	Ö	0	0	0	0	0	0	Ö	Ö	Ö	5
04:45	0	4	1	Ö	0	0	0	1	0	0	0	Ö	Ō	6
0 1. 10	0	12	3	0	2	0	0	1	0	0	0	0	0	18
05:00	0	5	1	1	1	0	0	2	1	0	0	0	0	11
05:15	0	5	0	0	0	0	0	0	0	0	0	0	0	5
05:30	0	6	2	0	1	0	0	1	0	0	0	0	0	10
05:45	1	5	1	0	0	1	0	0	0	0	0	0	0	8
05.45	1	21	4	1	2	1	0	3	1	0	0	0	0	34
00.00														
06:00	0	8	2	0	1	0	0	0	0	0	0	0	0	11
06:15	0	9	2	0	2	0	0	0	0	0	0	0	0	13
06:30	0	11	2	1	1	0	0	2	1	0	0	0	0	18
06:45	1_	12	0	0	2	0	0	0	0	0	0	0	0	15
	1	40	6	1	6	0	0	2	1	0	0	0	0	57
07:00	0	10	3	0	2	0	0	0	0	0	0	0	0	15
07:15	1	11	3	1	4	0	0	0	0	0	0	0	0	20
07:30	0	4	5	0	2	0	0	0	1	0	0	0	0	12
07:45	0	15	4	0	5	0	0	3	1	0	0	0	0	28
	1	40	15	1	13	0	0	3	2	0	0	0	0	75
08:00	0	4	5	0	1	0	0	0	0	0	0	0	0	10
08:15	0	5	3	0	2	0	0	0	0	0	0	0	0	10
08:30	1	8	3	0	2	1	0	1	0	0	0	0	0	16
08:45	1	11	2	0	3	1	0	0	2	0	0	0	0	20
	2	28	13	0	8	2	0	1	2	0	0	0	0	56
09:00	0	8	2	1	0	0	0	2	1	0	0	0	0	14
09:15	0	6	2	1	1	0	0	1	0	0	0	0	0	11
09:30	0	6	5	0	3	0	0	0	0	0	0	0	0	14
09:45	0	8	1	0	2	0	0	2	2	0	0	0	0	15
	0	28	10	2	6	0	0	5	3	0	0	0	0	54
10:00	Ö	6	2	0	1	0	Ő	1	0	Ö	Ö	Ö	Ö	10
10:15	1	8	6	1	3	0	0	4	0	0	0	0	0	23
10:30	1	3	1	0	1	1	0	1	0	0	Ö	Ö	Ö	8
10:45	0	5	4	0	3	0	0	0	1	0	0	0	0	13
10.70	2	22	13	1	8	1	0	6	1	0	0	0	0	54
11:00	0	8	1	0	1	0	0	1	0	0	0	0	0	11
11:15	0	10	3	0	3	0	0	1	0	0	0	0	0	17
11:30	0	6	5	0	3	1	0	1	0	0	0	0	0	16
11:45	0	7	2	0	1	0	0	0	0	0	0	0	0	10
	0	31	11	0	8	1_	0	3	0	0	0	0	0	54
Total Percent	8 1.9%	227 54.7%	77 18.6%	6 1.4%	53 12.8%	6 1.4%	0 0.0%	26 6.3%	12 2.9%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	415

All Traffic Data Services, Inc.

1336 Farmer Road Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

1.7%

59.4%

18.0%

1.6%

10.0%

1.6%

0.0%

4.5%

3.2%

0.1%

0.0%

0.0%

0.0%

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

Second Blace Care & ZAMe Andre Care & SAMe Andre Care & SAME Care SA	SB											L	_atitude: 0	' 0.0000 U	ndetined
Time			Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	
041118 0 0 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0		Rikas			Ruses	6 Tire									Total
0915 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
00300 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
00-45 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
01:00 0 5 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
01:00	00.43														
01:15	01:00														
01:30															
01:45															
02:00 0 1 3 3 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0															
02:00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	01:45														
02:15	00.00														
02:30															
02:45									-						
03:00 0 1 3 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0															
03:00	02:45														
03:15 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0															
03:30															
03:45															
04:00 0 2 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03:30	0	1	0	0	0	0	0	0	0	0	0	0	0	
04:00 0 2 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	03:45				0				0				0		
04:15 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	0	2	5	0	0	0	0	0	0	0	0	0	0	
04:15 0 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	04:00	0			0	0	0	0	0	0	0	0	0	0	0
04:30	04:15		1	2	0	0	0	0	0	0	0	0	0	0	
04:46 0 3 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1												
0 5 2 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 3 3 0 0 0 0			3		0										
05:00 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
06:15	05:00														
06:30									-				-	-	7
05:45							-								
06:00 0 0 0 3 0 1 0 0 0 1 0 0 0 0 0 27 06:05 0 3 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 7 06:30 0 3 2 0 1 1 0 0 0 1 0 0 0 0 0 0 0 7 06:30 0 3 2 0 1 1 0 0 0 1 0 0 0 0 0 0 0 7 06:45 0 2 4 1 3 0 0 0 1 0 0 0 0 0 0 0 0 7 06:45 0 0 8 10 2 6 0 0 3 1 0 0 0 0 0 0 0 0 0 1 0 0 8 10 2 6 0 0 3 1 0 0 0 0 0 0 0 0 1 0 7:00 0 4 4 0 0 2 0 0 0 0 1 0 0 0 0 0 0 0 1 07:15 0 2 4 0 0 2 0 0 0 0 1 0 0 0 0 0 0 0 1 07:45 0 2 4 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0															
06:00 0 0 0 3 0 1 0 0 0 1 0 0 0 0 0 0 5 6 06:15 0 3 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 0 7 7 06:30 0 3 2 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 7 7 06:45 0 2 4 1 1 3 0 0 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0	05.45														
06:15 0 3 1 1 1 1 0 0 0 1 0 0 0 0 0 0 0 7 06:30 0 3 2 0 1 1 0 0 0 1 0 0 0 0 0 0 0 7 06:45 0 2 4 1 3 0 0 0 0 1 0 0 0 0 0 0 0 7 06:45 0 2 4 1 3 0 0 0 0 1 0 0 0 0 0 0 0 1 0 8 10 2 6 0 0 0 3 1 0 0 0 0 0 0 0 0 1 0 7 06:45 0 2 4 0 1 3 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	06:00														
06:30 0 3 2 0 1 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									1						
06:45 0 2 4 1 3 0 0 0 1 0 0 0 0 1 1 0 0 0 0 11 07:30 0 4 4 0 2 0						•			1						
07:00 0 8 10 2 6 0 0 3 1 0 0 0 0 30 07:15 0 2 4 0 2 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>									-						
07:00 0 4 4 0 2 0 0 0 1 0 <td>06:45</td> <td></td>	06:45														
07:15 0 2 4 0 2 0 <td>07.00</td> <td></td>	07.00														
07:30 0 6 8 0 <td></td>															
07:45 0 7 8 0 3 0 <td></td>															
0 19 24 0 7 0 0 1 0 0 0 51 08:05 0 0 1 0 0 1 0<									-						
08:00 0 2 6 0 0 1 0 0 1 0 <td>07:45</td> <td></td>	07:45														
08:15															
08:30									0						
08:45 0 4 5 0 2 0 0 2 0 <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td>0</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					0		0		1						
09:00 0 15 20 1 5 2 0 3 2 0 </td <td>08:30</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td>	08:30				1				0				0		
09:00 0 3 1 0 <td>08:45</td> <td></td>	08:45														
09:15 0 2 3 1 2 0 <td></td> <td></td> <td></td> <td>20</td> <td>1</td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				20	1				3						
09:30 2 3 6 0 4 2 0 0 1 0 <td>09:00</td> <td>0</td> <td>3</td> <td>1</td> <td>0</td> <td>4</td>	09:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
09:30 2 3 6 0 4 2 0 0 1 0 <td>09:15</td> <td>0</td> <td>2</td> <td>3</td> <td>1</td> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>8</td>	09:15	0	2	3	1	2	0	0	0	0	0	0	0	0	8
09:45 0 4 7 0 3 0 0 2 0 <td></td>															
10:00 0 5 1 0 1 9 2 0 2 1 0 0 0 0 0 46 10:15 0 9 7 0 2 1 0 1 0										0					
10:00 0 5 1 0 1 0 0 0 0 1 0 0 0 0 0 8 10:15 0 9 7 0 2 1 0 1 0 1 0 1 0 0 0 0 21 10:30 0 4 2 0 3 1 0 0 0 0 0 0 0 0 0 0 0 1 10:45 0 5 2 0 0 0 0 0 3 0 0 0 0 0 0 0 0 10 0 23 12 0 6 2 0 4 1 1 1 0 0 0 0 0 0 0 10 11:00 0 3 4 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			12												46
10:15 0 9 7 0 2 1 0 1 0 1 0 0 0 0 21 10:30 0 4 2 0 3 1 0 11 11 11:0 0 0 0	10:00														
10:30				7			1		1		1		0		
10:45 0 5 2 0 11 11 11 12 0 0 2 0 0 0 0 0 14 14 14 11 1 0 0 0 0 0 0 <				2			1		0		0		0		
0 23 12 0 6 2 0 4 1 1 0 0 0 49 11:00 0 3 4 0 2 0 0 0 0 0 0 0 0 9 11:15 0 7 2 0 2 0 11 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 11 11 0 0 0 0 0 14 11 0 0 0 0 0 14 12 0 0 0 0 0 0 0 0 0															
11:00 0 3 4 0 2 0 0 0 0 0 0 0 0 0 9 11:15 0 7 2 0 2 0 0 0 0 0 0 0 0 11 11:30 0 5 1 0 3 0 0 0 2 0 0 0 0 11 11:45 0 5 3 1 2 0 0 2 1 0 0 0 0 14 1	10.40														
11:15 0 7 2 0 2 0 0 0 0 0 0 0 0 0 11 11:30 0 5 1 0 3 0 0 0 2 0 0 0 0 11 11:45 0 5 3 1 2 0 0 2 1 0 0 0 0 14 1	11.00														
11:30 0 5 1 0 3 0 0 0 2 0 0 0 0 11 11:45 0 5 3 1 2 0 0 2 1 0 0 0 0 14 0 20 10 1 9 0 0 2 3 0 0 0 0 45 Total 4 117 114 8 49 9 0 14 11 1 0 0 0 327															
11:45 0 5 3 1 2 0 0 2 1 0 0 0 0 14 0 20 10 1 9 0 0 2 3 0 0 0 0 45 Total 4 117 114 8 49 9 0 14 11 1 0 0 0 327															
0 20 10 1 9 0 0 2 3 0 0 0 0 45 Total 4 117 114 8 49 9 0 14 11 1 0 0 0 327															
Total 4 117 114 8 49 9 0 14 11 1 0 0 0 327	11:45														
															
rercent 1.2% 35.8% 34.9% 2.4% 15.0% 2.8% 0.0% 4.3% 3.4% 0.3% 0.0% 0.0% 0.0%															327
	Percent	1.2%	35.8%	34.9%	2.4%	15.0%	2.8%	0.0%	4.3%	3.4%	0.3%	0.0%	0.0%	0.0%	

Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

SB											L	_atitude: 0	' 0.0000 U	naetined
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
12 PM	<u>DIKES</u>	9	5	<u></u>	4	Sirigie 0	Sirigle 0		0	0	0	0	0	22
12:15	0	11	1	0	4	0	0	2	0	0	0	0	0	18
								1		0	0			
12:30	0	7 6	1 2	0	2	0	0		0	0	0	0	0	11
12:45	0							2						13
40.00	1	33	9	1	13	0	0	7	0	0	0	0	0	64
13:00	0	5	4	0	1	1	0	0	0	0	0	0	0	11
13:15	0	4	2	0	0	0	0	0	0	0	0	0	0	6
13:30	0	8	2	0	2	0	0	0	0	0	0	0	0	12
13:45	1_	9	3	0	2	1_	0	0	0	0	0	0	0	16_
	1	26	11	0	5	2	0	0	0	0	0	0	0	45
14:00	0	4	5	1	2	0	0	1	1	0	0	0	0	14
14:15	0	6	3	0	3	1	0	0	0	0	0	0	0	13
14:30	0	8	1	0	0	1	0	2	0	0	0	0	0	12
14:45	0	6	11	0	1	0	0	0	1	0	0	0	0	9
	0	24	10	1	6	2	0	3	2	0	0	0	0	48
15:00	0	9	2	0	4	0	0	0	0	0	0	0	0	15
15:15	0	9	5	1	1	1	0	0	0	0	0	0	0	17
15:30	0	9	5	0	2	0	0	1	0	0	0	0	0	17
15:45	1	9	3	Ö	2	2	0	0	0	0	0	Ö	0	17
10.10	1	36	15	1	9	3	0	1	0	0	0	0	0	66
16:00	0	11	3	0	5	0	0	1	0	0	0	0	0	20
16:15	0	8	1	0	3	0	0	1	0	0	0	0	0	13
			4	0	0	0	0	-	0	0	0	0	0	14
16:30	0	10	4			0	0	0		0	0	0	0	
16:45	0	8		0	3				0					15
47.00	0	37	12	0	11	0	0	2	0	0	0	0	0	62
17:00	0	13	4	0	3	0	0	0	0	0	0	0	0	20
17:15	1	9	6	1	2	1	0	1	0	0	0	0	0	21
17:30	0	9	3	1	3	0	0	2	0	0	0	0	0	18
17:45	0	5	4	0	1_	0	0	1_	0	0	0	0	0	11_
	1	36	17	2	9	1	0	4	0	0	0	0	0	70
18:00	0	8	6	1	4	0	0	0	0	0	0	0	0	19
18:15	0	13	6	0	1	0	0	1	0	0	0	0	0	21
18:30	0	8	1	0	2	0	0	0	0	0	0	0	0	11
18:45	0	4	5	0	4	0	0	0	0	0	0	0	0	13
	0	33	18	1	11	0	0	1	0	0	0	0	0	64
19:00	0	3	1	0	0	0	0	1	0	0	0	0	0	5
19:15	0	4	5	0	0	0	0	0	0	0	0	0	0	9
19:30	0	4	4	0	2	0	0	0	0	0	0	0	0	10
19:45	0	2	3	0	4	0	0	0	0	0	0	0	0	9
	0	13	13	0	6	0	0	1	0	0	0	0	0	33
20:00	0	4	3	0	1	1	0	0	1	0	0	0	0	10
20:15	0	2	6	0	2	0	0	0	0	0	Ő	0	0	10
20:30	0	3	5	0	0	0	0	0	0	0	0	0	0	8
20:30	0	4	0	0	0	0	0	0	0	0	0	0	0	4
20.43	0	13	14	0	3	1	0	0	1	0	0	0	0	
21.00	0	2	2	0	0	0	0	0	0	0	0	0	0	32
21:00														4
21:15	0	0	2	0	0	0	0	0	0	0	0	0	0	2
21:30	0	0	2	1	0	0	0	0	0	0	0	0	0	3
21:45	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	0	4	7	1	0	0	0	0	0	0	0	0	0	12
22:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
22:15	0	2	0	0	0	0	0	0	1	0	0	0	0	3
22:30	0	1	2	0	0	0	0	0	0	0	0	0	0	3
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	6	4	0	0	0	0	0	1	0	0	0	0	11
23:00	0	2	3	1	0	0	0	0	0	0	0	0	0	6
23:15	0	3	2	0	1	0	0	0	0	0	0	0	0	6
23:30	1	0	0	Ö	0	2	0	0	0	0	0	Ö	Ö	3
23:45	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	1	5	6	1	1	2	0	0	0	0	0	0	0	16
Total	5	266	136	8	74	11	0	19	4	0	0	0	0	523
Percent	1.0%	50.9%	26.0%	1.5%	14.1%	2.1%	0.0%	3.6%	0.8%	0.0%	0.0%	0.0%	0.0%	323
i Gillelli	1.0 /0	30.870	20.0/0	1.5/0	17.1/0	۷.۱/۵	0.076	3.0 /0	0.070	0.0 /6	0.070	0.0 /0	0.070	

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE

SB		•												
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/12/18	0	0	3	0	1	0	0	0	0	0	0	0	0	4
00:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
00:30	0	1	1	0	0	0	0	0	0	0	0	0	0	2
00:45	0	0	0	0	0	0	0_	0	0	0	0	0	0	0
	0	2	4	0	1	0	0	0	0	0	0	0	0	7
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	1	0	0	0	0	0	0	0	0	0	0	1
01:45	0	1_	0	0	0	0	0	0	0	0	0	0	0	1
	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:15	0	0	3	0	1	0	0	0	0	0	0	0	0	4
03:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	0	2	4	0	1	0	0	0	0	0	0	0	0	7
04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:45	1	2	0	0	1	1	0	0	0	0	0	0	0	5
	1	6	0	0	1	1	0	0	0	0	0	0	0	9
05:00	0	2	1	0	1	0	0	0	0	0	0	0	0	4
05:15	0	0	1	0	0	0	0	0	1	0	0	0	0	2
05:30	0	1	0	0	0	0	0	1	0	0	0	0	0	2
05:45	0	6	5	0	2	0	0	0	0	0	0	0	0	13
	0	9	7	0	3	0	0	1	1	0	0	0	0	21
06:00	0	1	4	0	1	0	0	0	1	0	0	0	0	7
06:15	1	4	2	1	3	1	0	0	0	0	0	0	0	12
06:30	0	1	3	0	1	0	0	2	0	0	0	0	0	7
06:45	2	1	1	0	2	1	0	1	0	0	0	0	0	8
	3	7	10	1	7	2	0	3	1	0	0	0	0	34
07:00	0	2	3	0	3	1	0	0	0	0	0	0	0	9
07:15	1	6	6	1	1	1	0	0	0	0	0	0	0	16
07:30	1	1	8	0	3	1	0	0	0	0	0	0	0	14
07:45	1	0	7	0	4	1	0	0	1	0	0	0	0	14
	3	9	24	1	11	4	0	0	1	0	0	0	0	53
08:00	1	3	6	0	1	1	0	0	1	0	0	0	0	13
08:15	0	2	5	0	5	0	0	1	0	0	0	0	0	13
08:30	1	5	4	0	3	0	0	0	0	1	0	0	0	14
08:45	0	6	3	0	4	0	0	1	1	0	0	0	0	15
	2	16	18	0	13	1	0	2	2	1	0	0	0	55
09:00	1	4	3	0	1	2	0	1	0	0	0	0	0	12
09:15	1	3	1	2	3	1	0	2	0	0	0	0	0	13
09:30	2	5	1	1	2	2	0	0	0	0	0	0	0	13
09:45	0	4	2	1	2	1	0	0	1	0	0	0	0	11
	4	16	7	4	8	6	0	3	1	0	0	0	0	49
10:00	1	3	3	0	3	2	0	1	0	0	0	Ō	0	13
10:15	2	4	5	1	4	2	0	0	0	0	0	0	0	18
10:30	1	8	6	1	5	1	0	1	0	Ö	0	0	Ö	23
10:45	1	3	0	0	0	1	0	0	0	0	0	0	0	5
	5	18	14	2	12	6	0	2	0	0	0	0	0	59
11:00	1	5	7	2	2	2	0	0	1	0	0	0	0	20
11:15	1	5	5	1	5	1	0	0	0	0	0	0	0	18
11:30	1	3	1	2	2	1	0	0	0	0	0	0	0	10
11:45	1	6	4	0	3	1	0	1	0	0	0	0	0	16
11.40	4	19	17	5	12	5	0	1	1	0	0	0	0	64
Total	22	105	108	13	69	25	0	12	7	1	0	0	0	362
Percent	6.1%	29.0%	29.8%	3.6%	19.1%	6.9%	0.0%	3.3%	1.9%	0.3%	0.0%	0.0%	0.0%	302
i ercent	0.1/0	∠3.∪ /0	23.0/0	3.0 /0	13.170	0.370	0.0 /0	3.3/0	1.3/0	0.3/0	0.076	0.070	0.0 /0	

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

B Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	>6 Axi Multi	Total
12 PM	0	4	LOTIG	0	0		Sirigle 0	0		0	0	0	0	<u>101a1</u> 9
12:15	0	7	5 5	1	3	1	0	3	1	0	0	0	0	20
12:13	1	2	4	1	2	1	0	0	0	0	0	0	0	11
12:45	0	4	4	0	3	0	0	0	2	0	0	0	0	13
12.43	1	17	16	2	8	2	0	3	4	0	0	0	0	53
13:00	0	6	2	0	0	1	0	1	0	0	0	0	0	10
13:15	0	4	3	0	4	0	0	1	0	0	0	0	0	12
13:30	0	3	4	0	2	0	0	0	1	0	0	0	0	10
13:45	0	6	3	1	3	1	0	0	0	0	0	0	0	14
10.40	0	19	12	1	9	2	0	2	1	0	0	0	0	46
14:00	0	7	2	0	1	0	0	1	0	0	0	0	0	11
14:15	1	6	2	0	4	0	0	0	0	0	0	0	0	13
14:30	0	5	6	0	1	0	0	1	0	0	0	0	0	13
14:45	0	6	2	1	2	0	0	0	0	0	0	0	0	11
1 1. 10	1	24	12	<u>:</u>	8	0	0	2	0	0	0	0	0	48
15:00	0	5	4	1	0	0	0	0	1	0	0	0	0	11
15:15	1	9	2	0	1	1	0	0	0	0	0	0	0	14
15:30	0	13	4	1	2	0	0	0	0	0	0	0	0	20
15:45	0	8	4	0	4	0	0	0	0	0	0	0	0	16
10.40	1	35	14	2	7	1	0	0	1	0	0	0	0	61
16:00	0	13	12	0	5	0	0	4	0	0	0	0	0	34
16:15	0	16	4	1	4	0	0	2	0	0	0	0	0	27
16:30	0	10	5	0	2	0	0	2	0	0	0	0	0	19
16:45	0	9	4	0	3	0	0	3	0	0	0	0	0	19
10.43	0	48	25	1	14	0	0	11	0	0	0	0	0	99
17:00	0	10	1	0	0	0	0	0	1	0	0	0	0	12
17:00	0	9	4	0	2	0	0	0	0	0	0	0	0	15
17:15	1	11	7	0	4	0	0	1	0	0	0	0	0	24
17:30	0	13	6	0	2	0	0	1	0	0	0	0	0	22
17.45	1	43	18	0	8	0	0	2	1	0	0	0	0	73
18:00	0	9	3	0	2	0	0	0	0	0	0	0	0	14
18:15	0	10	4	0	1	0	0	1	0	0	0	0	0	16
18:30	0	5	2	0	0	0	0	0	0	0	0	0	0	7
18:45	0	5	0	0	2	0	0	0	0	0	0	0	0	7
10.45	0	29	9	0	5	0	0	1	0	0	0	0	0	44
19:00	0	10	2	0	2	0	0	0	0	0	0	0	0	14
19:00	0	5	6	0	3	0	0	0	0	0	0	0	0	14
19:30	0	6	2	0	0	0	0	0	0	0	0	0	0	8
19:45	0	5	2	0	0	0	0	0	0	0	0	0	0	7
13.43	0	26	12	0	5	0	0	0	0	0	0	0	0	43
20:00	0	9	0	0	1	0	0	0	0	0	0	0	0	10
20:15	0	5	5	0	1	0	0	0	0	0	0	0	0	11
20:30	0	5	2	0	1	0	0	0	0	0	0	0	0	8
20:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
20.43	0	23	7	0	3	0	0	0	0	0	0	0	0	33
21:00	0	3	0	0	2	0	0	0	0	0	0	0	0	5
21:15	0	3	0	0	0	0	0	0	0	0	0	0	0	3
21:30	1	0	2	0	0	1	0	0	0	0	0	0	0	4
21:45	0	4	2	1	1	0	0	0	0	0	0	0	0	8
21.40	1	10	4	1	3	1	0	0	0	0	0	0	0	20
22:00	0	10	0	0	0	0	0	0	0	0	0	0	0	1
22:15	0	2	2	0	1	0	0	1	0	0	0	0	0	6
22:30	0	3	2	0	0	0	0	0	0	0	0	0	0	5
22:45	0	1	0	0	1	0	0	0	0	0	0	0	0	2
22.40	0	7	4	0	2	0	0	1	0	0	0	0	0	14
22.00	0	0	2	0	0	0	0	0	0	0	0	0	0	
23:00 23:15	1	1	1	2	2	0	0	0	0	0	0	0	0	2 7
23:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
		0	2											
23:45	1			0	0	1	0	0	0	0	0	0	0	4
Total	2	1	130	2	2	1 7	0	0	0	0	0	0	0	14
Total Percent	7 1.3%	282 51.5%	139 25.4%	10 1.8%	74 13.5%	7 1.3%	0 0.0%	22 4.0%	7 1.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	548
Grand	38	770	497	39	266	52	0	67	29	2	0	0	0	1760
Total														

3.0%

0.0%

3.8%

1.6%

0.0%

0.1%

0.0%

0.0%

2.2%

Percent

43.8%

28.2%

2.2%

15.1%

Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

NB Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	
	D.:													.
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/11/18	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	1	2	0	0	0	0	0	0	0	0	0	0	3
00:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	0	2	3	0	0	0	0	0	0	0	0	0	0	5
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	1	0	0	0	0	1
01:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0			0									
01:45	0		0	0		0	0	0	0	0	0	0	0	0
00.00	0	0	0	0	0	0	0	0	1	0	0	0	0	1
02:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	1	0	0	1	0	0	0	0	0	0	0	0	2
02:45	0	0	0	0	0	0	0_	0	0	0	0	0	0	0
	0	1	0	0	2	0	0	0	0	0	0	0	0	3
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45	0	0	0	0	0	0	0	0	Ő	0	0	0	0	0
00.40	0	0	1	0	0	0	0	0	0	0	0	0	0	1
04.00													0	
04:00	0	2	0	0	1	0	0	0	0	0	0	0		3
04:15	0	4	0	0	0	0	0	0	0	0	0	0	0	4
04:30	1	3	0	0	0	1	0	0	1	0	0	0	0	6
04:45	0_	3	1	0	1_	0	00	0	1	0	0	0	0	6
	1	12	1	0	2	1	0	0	2	0	0	0	0	19
05:00	0	5	0	1	0	0	0	0	1	1	0	0	0	8
05:15	0	4	1	1	0	0	0	0	0	0	0	0	0	6
05:30	0	5	4	0	0	0	0	0	0	0	0	0	0	9
05:45	3	3	2	0	1	1	0	0	1	0	0	0	0	11
	3	17	7	2	1	1	0	0	2	1	0	0	0	34
06:00	0	2	3	0	3	0	0	0	1	0	Ő	Ö	Ö	9
06:15	0	5	3	0	1	0	0	0	0	0	0	0	0	9
06:30	0	6	3	1	3	0	0	0	0	0	0	0	0	
														13
06:45	0	7	2	0	3	0	0	1_	1	0	0	0	0	14
	0	20	11	1	10	0	0	1	2	0	0	0	0	45
07:00	1	4	8	1	2	0	0	0	0	0	0	0	0	16
07:15	0	17	2	0	0	0	0	1	0	0	0	0	0	20
07:30	1	6	2	0	2	1	0	1	0	0	0	0	0	13
07:45	0	6	3	0	3	0	0	0	1	0	0	0	0	13
	2	33	15	1	7	1	0	2	1	0	0	0	0	62
08:00	1	6	1	1	0	1	0	0	1	0	0	0	0	11
08:15	0	6	0	0	2	0	0	0	0	0	0	0	0	8
08:30	1	6	3	0	1	0	0	0	0	0	0	0	0	11
08:45	0	9	1	0	0	0	0	0	1	0	0	0	0	11
00.43		27	5	1		1	0	0			0	0	0	41
00.00	2				3				2	0				
09:00	0	10	3	0	0	1	0	0	0	0	0	0	0	14
09:15	0	12	5	0	2	0	0	1	0	0	0	0	0	20
09:30	0	12	3	0	1	0	0	1	1	0	0	0	0	18
09:45	0	8	3	0	0	0	0	0	1	0	0	0	0	12
	0	42	14	0	3	1	0	2	2	0	0	0	0	64
10:00	0	16	1	0	4	0	0	2	1	0	0	0	0	24
10:15	0	6	5	0	1	0	0	1	0	0	0	0	0	13
10:13	0	6	2	0	0	0	0	0	0	0	0	0	0	8
10:30	0	11	5	1	2	0	0	1	1	0	0	0	0	21
10.40	0	39		1	<u>2</u> 7	0	0	4	2	0	0	0	0	
44.00			13											66
11:00	0	9	2	1	0	0	0	1	0	0	0	0	0	13
11:15	0	8	3	1	2	0	0	1	0	0	0	0	0	15
11:30	1	9	3	0	1	2	0	1	0	0	0	0	0	17
11:45	0_	9	2	0	2	0	0	0	0	0	0	0	0	13
	1	35	10	2	5	2	0	3	0	0	0	0	0	58
Total	9	228	80	8	40	7	0	12	14	1	0	0	0	399
Percent	2.3%	57.1%	20.1%	2.0%	10.0%	1.8%	0.0%	3.0%	3.5%	0.3%	0.0%	0.0%	0.0%	555
. 0.00111	070	3/0	_0.170	070	. 5.0 / 6		3.070	3.070	3.070	3.070	3.070	0.070	0.070	

Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

NB														
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
12 PM	0	6	2	0	2	0	0	0	0	0	0	0	0	10
12:15	0	11	1	0	2	0	0	1	1	0	0	0	0	16
12:30	0	10	1	1	2	0	0	0	1	0	0	0	0	15
12:45	0	10	1	0	0	0	0	0	0	0	0	0	0	11
12.45	0	37	5	1	6	0	0	1	2	0	0	0	0	52
12.00														12
13:00	0	7	1	1	2	0	0	1	1	0	0	0	0	13
13:15	4	16	2	0	2	0	0	1	0	0	0	0	0	25
13:30	0	5	1	0	0	0	0	1	0	0	0	0	0	7
13:45	1_	11	2	1_	2	0	0	0	1	0	0	0	0	18
	5	39	6	2	6	0	0	3	2	0	0	0	0	63
14:00	0	10	4	0	0	0	0	0	0	0	0	0	0	14
14:15	0	4	2	0	0	0	0	1	0	0	0	0	0	7
14:30	0	9	5	0	5	0	0	0	0	0	0	0	0	19
14:45	0	13	4	0	1	0	0	2	0	0	0	0	0	20
	0	36	15	0	6	0	0	3	0	0	0	0	0	60
15:00	0	6	2	0	0	1	0	2	2	0	0	0	0	13
15:15	0	6	4	0	1	2	0	0	0	0	0	0	0	13
15:30	0	6	2	0	1	0	0	0	1	0	0	0	0	10
15:45	0	8	5	0	0	0	0	1	2	0	0	0	0	16
	0	26	13	0	2	3	0	3	5	0	0	0	0	52
16:00	0	9	3	0	3	2	0	0	0	0	0	0	0	17
16:15	0	8	2	0	1	1	0	1	0	0	0	0	0	13
16:30	0	7	3	1	1	0	0	1	0	0	0	0	0	13
16:45	0	12	7	0	3	0	0	0	1	0	0	0	0	23
	0	36	15	1	8	3	0	2	1	0	0	0	0	66
17:00	0	18	0	0	0	0	0	2	1	0	0	0	0	21
17:15	0	7	1	0	1	0	0	0	0	0	0	0	0	9
17:30	0	6	2	0	3	1	0	3	Ő	0	0	0	0	15
17:45	0	10	3	0	3	1	0	1	0	0	0	0	0	18
17.45	0		6	0	7	2		6	1	0		0		63
40.00		41					0				0		0	
18:00	0	10	2	0	1	0	0	0	0	0	0	0	0	13
18:15	0	13	1	0	3	0	0	1	0	0	0	0	0	18
18:30	0	6	3	0	1	0	0	0	0	0	0	0	0	10
18:45	0	10	0	0	1	0	0	0	0	0	0	0	0	11
	0	39	6	0	6	0	0	1	0	0	0	0	0	52
19:00	0	9	3	0	1	0	0	0	0	0	0	0	0	13
19:15	0	8	1	0	0	0	0	1	0	0	0	0	0	10
19:30	0	4	0	0	1	0	0	0	0	0	0	0	0	5
19:45	0	5	1	0	1	0	0	1	0	0	0	0	0	8
	0	26	5	0	3	0	0	2	0	0	0	0	0	36
20:00	0	7	3	0	1	0	0	1	0	0	0	0	0	12
20:15	0	4	0	0	1	0	0	0	0	0	0	0	0	5
												-		
20:30	0	8	1	0	0	0	0	0	0	0	0	0	0	9
20:45	0	3	2	0	1_	0	0	1_	1_	0	0	0	0	8
	0	22	6	0	3	0	0	2	1	0	0	0	0	34
21:00	1	3	1	0	0	1	0	0	0	0	0	0	0	6
21:15	0	2	1	0	0	0	0	0	0	0	0	0	0	3
21:30	0	5	0	0	0	0	0	0	2	0	0	0	0	7
21:45	0	1	1	0	0	0	0	0	0	0	0	0	0	2
	1	11	3	0	0	1	0	0	2	0	0	0	0	18
22:00	0	5	1	0	0	0	0	0	0	0	0	0	0	6
22:15	0	6	4	0	0	0	0	0	0	0	0	0	0	10
22:30	0	0	0	0	0	0	0	0	1	0	0	0	0	10
22:45	0	4	0	0	0	0	0	0		0	0	0	0	4
22.45									0					
00.00	0	15	5	0	0	0	0	0	1	0	0	0	0	21
23:00	0	1	1	0	0	0	0	0	0	0	0	0	0	2
23:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
23:30	0	2	1	0	0	0	0	1	0	0	0	0	0	4
23:45	0	2	0	0	0	0	0	0	0	0	0	0	0	2
-	0	7	2	0	0	0	0	1	0	0	0	0	0	10
Total	6	335	87	4	47	9	0	24	15	0	0	0	0	527
Percent	1.1%	63.6%	16.5%	0.8%	8.9%	1.7%	0.0%	4.6%	2.8%	0.0%	0.0%	0.0%	0.0%	
. 0.00.11	,0	33.370	. 0.0 70	3.370	3.370	70	3.370		2.570	0.070	3.370	0.070	0.075	

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE

NB Stort		Coro	2 1		2 1	2 / ١/١٥	1 1	-E ∧ √I	E Avic	- C Avl	46 AVI	G Avia	- C A v.I	
Start	D.,	Cars &	2 Axle	D	2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 Axl	+
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/12/18	0	2	0	0	0	0	0	0	0	0	0	0	0	2
00:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00:45	0	11	0	0	0	0	0	0	0	0	0	0	0	1
04.00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	1	0	0	0	0	0	1
01:30	0	0	1	0	0	0	0	0	1	0	0	0	0	2
01:45		0	0	0	0	1	0	0	0	0	0	0	0	2
20.00	1	0	1	0	0	1	0	1	1	0	0	0	0	5
02:00	0	1	0	0	0	0	0	0	0	0	0	0	0	1
02:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30	0	0	0	0	0	0	0	1	1	0	0	0	0	2
03:45	0	11	1	0	0	0	0	0	0	0	0	0	0	2
	0	1	1	0	0	0	0	1	1	0	0	0	0	4
04:00	0	0	0	0	1	0	0	0	0	0	0	0	0	1
04:15	0	5	0	0	1	0	0	0	0	0	0	0	0	6
04:30	0	3	2	0	0	0	0	0	0	0	0	0	0	5
04:45	0	4	11	0	0	0	00	1	0	0	0	0	0	6
	0	12	3	0	2	0	0	1	0	0	0	0	0	18
05:00	0	5	1	1	1	0	0	2	1	0	0	0	0	11
05:15	0	5	0	0	0	0	0	0	0	0	0	0	0	5
05:30	0	6	2	0	1	0	0	1	0	0	0	0	0	10
05:45	1_	5	1_	0	0	1	0	0	00	0	0	0	0	8
	1	21	4	1	2	1	0	3	1	0	0	0	0	34
06:00	0	8	2	0	1	0	0	0	0	0	0	0	0	11
06:15	0	9	2	0	2	0	0	0	0	0	0	0	0	13
06:30	0	11	2	1	1	0	0	2	1	0	0	0	0	18
06:45	1_	12	0	0	2	0	0_	0	0	0	0	0	0	15
	1	40	6	1	6	0	0	2	1	0	0	0	0	57
07:00	0	10	3	0	2	0	0	0	0	0	0	0	0	15
07:15	1	11	3	1	4	0	0	0	0	0	0	0	0	20
07:30	0	4	5	0	2	0	0	0	1	0	0	0	0	12
07:45	0	15	4	0	5	0	0	3	1	0	0	0	0	28
	1	40	15	1	13	0	0	3	2	0	0	0	0	75
08:00	0	4	5	0	1	0	0	0	0	0	0	0	0	10
08:15	0	5	3	0	2	0	0	0	0	0	0	0	0	10
08:30	1	8	3	0	2	1	0	1	0	0	0	0	0	16
08:45	1	11	2	0	3	1	0	0	2	0	0	0	0	20
	2	28	13	0	8	2	0	1	2	0	0	0	0	56
09:00	0	8	2	1	0	0	0	2	1	0	0	0	0	14
09:15	0	6	2	1	1	0	0	1	0	0	0	0	0	11
09:30	0	6	5	0	3	0	0	0	0	0	0	0	0	14
09:45	0	8	1	0	2	0	0	2	2	0	0	0	0	15
	0	28	10	2	6	0	0	5	3	0	0	0	0	54
10:00	0	6	2	0	1	0	0	1	0	0	0	0	0	10
10:15	1	8	6	1	3	0	0	4	0	0	0	0	0	23
10:30	1	3	1	0	1	1	0	1	0	0	0	0	0	8
10:45	0	5	4	0	3	0	0	0	1	0	0	0	0	13
	2	22	13	1	8	1	0	6	1	0	0	0	0	54
11:00	0	8	1	0	1	0	0	1	0	0	Ő	0	0	11
11:15	0	10	3	0	3	0	0	1	0	0	0	0	0	17
11:30	0	6	5	0	3	1	0	1	0	0	0	0	0	16
11:45	0	7	2	0	1	0	0	0	0	0	0	0	0	10
11.40	0	31	11	0	8	1	0	3	0	0	0	0	0	54
Total	8	227	77	6	53	6	0	26	12	0	0	0	0	415
Percent	1.9%	54.7%	18.6%	1.4%	12.8%	1.4%	0.0%	6.3%	2.9%	0.0%	0.0%	0.0%	0.0%	410
i Giociil	1.0/0	J4.1 /0	10.070	1.77	12.070	1.4/0	0.076	0.576	2.5/0	0.076	0.076	0.076	0.076	

All Traffic Data Services, Inc.

1336 Farmer Road Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

1.7%

59.4%

18.0%

1.6%

10.0%

1.6%

0.0%

4.5%

3.2%

0.1%

0.0%

0.0%

0.0%

Covington, Ga 30012 ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

SB											L	_atitude: 0	' 0.0000 U	ndetined
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/11/18	0	0	1	0	1	0	0	0	0	0	0	0	0	2
00:15	0	Ö	3	Ö	0	0	Ő	0	0	0	0	Ö	Ö	3
00:30	0	0	1	0	0	0	0	0	0	0	0	0	0	1
00:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	5	0	1	0	0	0	0	0	0	0	0	6
01:00	0	1	0	Ö	0	0	Ő	0	0	0	0	Ö	Ö	1
01:15	0	0	2	0	0	0	0	0	0	0	0	0	0	2
01:30	0	Ö	1	Ő	1	0	Ő	0	0	0	0	Ö	Ö	2
01:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01.40	0	1	3	0	1	0	0	0	0	0	0	0	0	5
02:00	0	0	0	0	0	0	0	0	1	Ö	ő	0	Ö	1
02:15	0	0	3	0	0	0	0	0	0	0	0	0	0	3
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02.40	0	0	3	0	0	0	0	0	1	0	0	0	0	4
03:00	0	1	4	0	0	0	0	0	0	0	0	0	0	5
03:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03.43	0	2	5	0	0	0	0	0	0	0	0	0	0	7
04:00		0	0	0	0	0	0			0	0	0	0	
04:00	0	1	2	0	0		0	0	0			0	0	0
04:15 04:30	0	1	0	1	0	0	0	0	0	0	0	0	0	3
	0	3	0	0	1	0	0	0	0	0	0	0	0	2
04:45														4
05.00	0	5	2	1	1	0	0	0	0	0	0	0	0	9
05:00	0	3	0	0	0	0	0	0	0	0	0	0	0	3
05:15	1	3	2	0	0	1	0	0	0	0	0	0	0	7
05:30	0	3	0	0	1	1	0	0	1	0	0	0	0	6
05:45	1	3	1	2	3	1	0	0	0	0	0	0	0	11
00.00	2	12	3	2	4	3	0	0	1	0	0	0	0	27
06:00	0	0	3	0	1	0	0	1	0	0	0	0	0	5
06:15	0	3	1	1	1	0	0	1	0	0	0	0	0	7
06:30	0	3	2	0	1	0	0	1	0	0	0	0	0	7
06:45	0	2	4	1	3	0	0	0	1_	0	0	0	0	11
	0	8	10	2	6	0	0	3	1	0	0	0	0	30
07:00	0	4	4	0	2	0	0	0	1	0	0	0	0	11
07:15	0	2	4	0	2	0	0	0	0	0	0	0	0	8
07:30	0	6	8	0	0	0	0	0	0	0	0	0	0	14
07:45	0	7	8	0	3	0	0	0	0	0	0	0	0	18
	0	19	24	0	7	0	0	0	1	0	0	0	0	51
08:00	0	2	6	0	0	1	0	0	1	0	0	0	0	10
08:15	0	4	4	0	1	0	0	1	1	0	0	0	0	11
08:30	0	5	5	1	2	1	0	0	0	0	0	0	0	14
08:45	0	4	5	0	2	0	0	2	0	0	0	0	0	13
	0	15	20	1	5	2	0	3	2	0	0	0	0	48
09:00	0	3	1	0	0	0	0	0	0	0	0	0	0	4
09:15	0	2	3	1	2	0	0	0	0	0	0	0	0	8
09:30	2	3	6	0	4	2	0	0	1	0	0	0	0	18
09:45	0	4	7	0	3	0	0	2	0	0	0	0	0	16
	2	12	17	1	9	2	0	2	1	0	0	0	0	46
10:00	0	5	1	0	1	0	0	0	1	0	0	0	0	8
10:15	0	9	7	0	2	1	0	1	0	1	0	0	0	21
10:30	0	4	2	0	3	1	0	0	0	0	0	0	0	10
10:45	0	5	2	0	0	0	0	3	0	0	0	0	0	10
	0	23	12	0	6	2	0	4	1	1	0	0	0	49
11:00	0	3	4	0	2	0	0	0	0	0	0	0	0	9
11:15	0	7	2	0	2	0	0	0	0	0	0	0	0	11
11:30	0	5	1	0	3	0	0	0	2	0	0	0	0	11
11:45	0	5	3	1	2	0	0	2	1	0	0	0	0	14
	0	20	10	1	9	0	0	2	3	0	0	0	0	45
Total	4	117	114	8	49	9	0	14	11	1	0	0	0	327
Percent	1.2%	35.8%	34.9%	2.4%	15.0%	2.8%	0.0%	4.3%	3.4%	0.3%	0.0%	0.0%	0.0%	
. 0.00.11	/0	33.370	0 70		, .	2.070	0.070		5	0.070	0.070	0.070	0.0,0	

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

SB											L	atitude: 0	0.0000	luellileu
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 Axl	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
12 PM	1	9	5	1	4	0	0	2	0	0	0	0	0	22
12:15	0	11	1	0	4	0	0	2	0	0	0	0	0	18
12:30	0	7	1	0	2	0	0	1	0	0	0	0	0	11
12:45	0	6	2	0	3	0	0	2	0	0	0	0	0	13
	1	33	9	1	13	0	0	7	0	0	0	0	0	64
13:00	0	5	4	0	1	1	0	0	0	Ö	Ő	Ö	0	11
13:15	0	4	2	0	0	0	0	0	0	0	0	0	0	6
13:30	0	8	2	0	2	0	0	0	0	0	0	0	0	12
13:45	1	9	3	0	2	1	0	0	0	0	0	0	0	16
13.43	1	26	11	0	5	2	0	0	0	0	0	0	0	45
14:00	0	4	5	1	2	0	0	1	1	0	0	0	0	14
14:15	0	6	3	0	3	1	0	0	0	0	0	0	0	13
14:15			3 1		0	1	0		0	0	0		0	12
	0	8		0		-		2				0		
14:45	0	6	1	0	1	0	0	0	1	0	0	0	0	9
	0	24	10	1	6	2	0	3	2	0	0	0	0	48
15:00	0	9	2	0	4	0	0	0	0	0	0	0	0	15
15:15	0	9	5	1	1	1	0	0	0	0	0	0	0	17
15:30	0	9	5	0	2	0	0	1	0	0	0	0	0	17
15:45	1_	9	3	0	2	2	00	0	0	0	0	0	0	17
	1	36	15	1	9	3	0	1	0	0	0	0	0	66
16:00	0	11	3	0	5	0	0	1	0	0	0	0	0	20
16:15	0	8	1	0	3	0	0	1	0	0	0	0	0	13
16:30	0	10	4	0	0	0	0	0	0	0	0	0	0	14
16:45	0	8	4	0	3	0	0	0	0	0	0	0	0	15
	0	37	12	0	11	0	0	2	0	0	0	0	0	62
17:00	0	13	4	0	3	0	0	0	0	0	0	0	0	20
17:15	1	9	6	1	2	1	0	1	0	0	0	0	0	21
17:30	0	9	3	1	3	0	0	2	0	0	0	0	0	18
17:45	0	5	4	0	1	0	0	1	0	0	0	0	0	11
	1	36	17	2	9	1	0	4	0	0	0	0	0	70
18:00	0	8	6	1	4	0	0	0	0	0	0	0	0	19
18:15	0	13	6	0	1	0	0	1	0	0	0	0	0	21
18:30	0	8	1	0	2	0	0	0	0	0	0	0	0	11
	0	4	5	0	4	0	0	0	0	0	0	0	0	
18:45	0	33	18	1	11	0	0	1	0	0	0	0	0	13 64
40.00								1				0		
19:00	0	3	1	0	0	0	0	•	0	0	0		0	5
19:15	0	4	5	0	0	0	0	0	0	0	0	0	0	9
19:30	0	4	4	0	2	0	0	0	0	0	0	0	0	10
19:45	0	2	3	0	4	0	0	0	0	0	0	0	0	9
	0	13	13	0	6	0	0	1	0	0	0	0	0	33
20:00	0	4	3	0	1	1	0	0	1	0	0	0	0	10
20:15	0	2	6	0	2	0	0	0	0	0	0	0	0	10
20:30	0	3	5	0	0	0	0	0	0	0	0	0	0	8
20:45	0	4	0	0	0	0	0_	0	0	0	0	0	0	4
	0	13	14	0	3	1	0	0	1	0	0	0	0	32
21:00	0	2	2	0	0	0	0	0	0	0	0	0	0	4
21:15	0	0	2	0	0	0	0	0	0	0	0	0	0	2
21:30	0	0	2	1	0	0	0	0	0	0	0	0	0	3
21:45	0	2	1	0	0	0	0	0	0	0	0	0	0	3
	0	4	7	1	0	0	0	0	0	0	0	0	0	12
22:00	0	3	2	0	0	0	0	0	0	0	0	0	0	5
22:15	0	2	0	0	0	0	0	0	1	0	0	0	0	3
22:30	0	1	2	Ö	0	0	0	0	0	Ö	Ö	Ö	Ö	3
22:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	6	4	0	0	0	0	0	1	0	0	0	0	11
23:00	0	2	3	1	0	0	0	0	0	0	0	0	0	6
23:15	0	3	2	0	1	0	0	0	0	0	0	0	0	6
23:30	1	0	0	0	0	2	0	0	0	0	0	0	0	3
23:45	0	0	1	0	0	0	0	0	0	0	0	0	0	
23.43	1	5	6	1	1	2	0	0	0	0	0	0	0	1 16
Tatal														
Total Percent	5	266	136	8 1 50/	74	11	0	19	0.00/	0 00/	0 0%	0	0	523
Percent	1.0%	50.9%	26.0%	1.5%	14.1%	2.1%	0.0%	3.6%	0.8%	0.0%	0.0%	0.0%	0.0%	

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE

SB		•												
Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 Axl	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	Multi	Total
04/12/18	0	0	3	0	1	0	0	0	0	0	0	0	0	4
00:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
00:30	0	1	1	0	0	0	0	0	0	0	0	0	0	2
00:45	0	0	0	0	0	0	0_	0	0	0	0	0	0	0
	0	2	4	0	1	0	0	0	0	0	0	0	0	7
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30	0	0	1	0	0	0	0	0	0	0	0	0	0	1
01:45	0	1_	0	0	0	0	0	0	0	0	0	0	0	1
	0	1	1	0	0	0	0	0	0	0	0	0	0	2
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15	0	0	1	0	0	0	0	0	0	0	0	0	0	1
02:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45	0	0	1	0	0	0	0	0	0	0	0	0	0	1
	0	0	2	0	0	0	0	0	0	0	0	0	0	2
03:00	0	0	1	0	0	0	0	0	0	0	0	0	0	1
03:15	0	0	3	0	1	0	0	0	0	0	0	0	0	4
03:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
03:45	0	1	0	0	0	0	0	0	0	0	0	0	0	1
	0	2	4	0	1	0	0	0	0	0	0	0	0	7
04:00	0	2	0	0	0	0	0	0	0	0	0	0	0	2
04:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:30	0	1	0	0	0	0	0	0	0	0	0	0	0	1
04:45	1	2	0	0	1	1	0	0	0	0	0	0	0	5
	1	6	0	0	1	1	0	0	0	0	0	0	0	9
05:00	0	2	1	0	1	0	0	0	0	0	0	0	0	4
05:15	0	0	1	0	0	0	0	0	1	0	0	0	0	2
05:30	0	1	0	0	0	0	0	1	0	0	0	0	0	2
05:45	0	6	5	0	2	0	0	0	0	0	0	0	0	13
	0	9	7	0	3	0	0	1	1	0	0	0	0	21
06:00	0	1	4	0	1	0	0	0	1	0	0	0	0	7
06:15	1	4	2	1	3	1	0	0	0	0	0	0	0	12
06:30	0	1	3	0	1	0	0	2	0	0	0	0	0	7
06:45	2	1	1	0	2	1	0	1	0	0	0	0	0	8
	3	7	10	1	7	2	0	3	1	0	0	0	0	34
07:00	0	2	3	0	3	1	0	0	0	0	0	0	0	9
07:15	1	6	6	1	1	1	0	0	0	0	0	0	0	16
07:30	1	1	8	0	3	1	0	0	0	0	0	0	0	14
07:45	1	0	7	0	4	1	0	0	1	0	0	0	0	14
	3	9	24	1	11	4	0	0	1	0	0	0	0	53
08:00	1	3	6	0	1	1	0	0	1	0	0	0	0	13
08:15	0	2	5	0	5	0	0	1	0	0	0	0	0	13
08:30	1	5	4	0	3	0	0	0	0	1	0	0	0	14
08:45	0	6	3	0	4	0	0	1	1	0	0	0	0	15
	2	16	18	0	13	1	0	2	2	1	0	0	0	55
09:00	1	4	3	0	1	2	0	1	0	0	0	0	0	12
09:15	1	3	1	2	3	1	0	2	0	0	0	0	0	13
09:30	2	5	1	1	2	2	0	0	0	0	0	0	0	13
09:45	0	4	2	1	2	1	0	0	1	0	0	0	0	11
	4	16	7	4	8	6	0	3	1	0	0	0	0	49
10:00	1	3	3	0	3	2	0	1	0	0	0	Ō	0	13
10:15	2	4	5	1	4	2	0	0	0	0	0	0	0	18
10:30	1	8	6	1	5	1	0	1	0	Ö	0	0	Ö	23
10:45	1	3	0	0	0	1	0	0	0	0	0	0	0	5
	5	18	14	2	12	6	0	2	0	0	0	0	0	59
11:00	1	5	7	2	2	2	0	0	1	0	0	0	0	20
11:15	1	5	5	1	5	1	0	0	0	0	0	0	0	18
11:30	1	3	1	2	2	1	0	0	0	0	0	0	0	10
11:45	1	6	4	0	3	1	0	1	0	0	0	0	0	16
11.40	4	19	17	5	12	5	0	1	1	0	0	0	0	64
Total	22	105	108	13	69	25	0	12	7	1	0	0	0	362
Percent	6.1%	29.0%	29.8%	3.6%	19.1%	6.9%	0.0%	3.3%	1.9%	0.3%	0.0%	0.0%	0.0%	302
i ercent	0.1/0	∠3.∪ /0	23.0/0	3.0 /0	13.170	0.370	0.0 /0	3.3/0	1.3/0	0.3/0	0.076	0.0 /0	0.0 /0	

ph 404-374-1283

Site Code: 1 Station ID: 1 SR 16 - MACON HWY SOUTH OF SHORT CREEK BRIDGE Latitude: 0' 0.0000 Undefined

B Start		Cars &	2 Axle		2 Axle	3 Axle	4 Axle	<5 AxI	5 Axle	>6 AxI	<6 AxI	6 Axle	>6 AxI	
Time	Bikes	Trailers	Long	Buses	6 Tire	Single	Single	Double	Double	Double	Multi	Multi	>6 Axi Multi	Total
12 PM	0	4	3	0	0		Sirigle 0	0		0	0	0	0	<u>101a1</u> 9
12:15	0	7	5 5	1	3	1	0	3	1	0	0	0	0	20
12:13	1	2	4	1	2	1	0	0	0	0	0	0	0	11
12:45	0	4	4	0	3	0	0	0	2	0	0	0	0	13
12.43	1	17	16	2	8	2	0	3	4	0	0	0	0	53
13:00	0	6	2	0	0	1	0	1	0	0	0	0	0	10
13:15	0	4	3	0	4	0	0	1	0	0	0	0	0	12
13:30	0	3	4	0	2	0	0	0	1	0	0	0	0	10
13:45	0	6	3	1	3	1	0	0	0	0	0	0	0	14
10.40	0	19	12	1	9	2	0	2	1	0	0	0	0	46
14:00	Ö	7	2	0	1	0	0	1	0	Ö	0	Ö	0	11
14:15	1	6	2	0	4	0	0	0	0	0	0	0	0	13
14:30	0	5	6	Ö	1	0	0	1	0	0	0	Ö	Ö	13
14:45	0	6	2	1	2	0	0	0	0	0	0	0	0	11
1 11 10	1	24	12	1	8	0	0	2	0	0	0	0	0	48
15:00	0	5	4	1	0	0	0	0	1	0	0	0	0	11
15:15	1	9	2	0	1	1	0	0	0	0	0	0	0	14
15:30	0	13	4	1	2	0	0	0	0	0	0	0	0	20
15:45	0	8	4	0	4	0	0	0	0	0	0	0	0	16
10.70	1	35	14	2	7	1	0	0	1	0	0	0	0	61
16:00	0	13	12	0	5	0	0	4	0	0	0	0	0	34
16:15	0	16	4	1	4	0	0	2	0	0	0	0	0	27
16:30	0	10	5	0	2	0	0	2	0	0	0	0	0	19
16:45	0	9	4	0	3	0	0	3	0	0	0	0	0	19
10.10	0	48	25	1	14	0	0	11	0	0	0	0	0	99
17:00	0	10	1	0	0	0	0	0	1	0	0	0	0	12
17:15	0	9	4	0	2	0	0	0	0	0	0	0	0	15
17:30	1	11	7	0	4	0	0	1	0	0	0	0	0	24
17:45	0	13	6	0	2	0	0	i 1	0	0	0	0	0	22
17.10	1	43	18	0	8	0	0	2	1	0	0	0	0	73
18:00	0	9	3	0	2	0	0	0	0	0	0	0	0	14
18:15	0	10	4	0	1	0	0	1	0	0	0	0	0	16
18:30	0	5	2	0	0	0	0	0	0	0	0	0	0	7
18:45	0	5	0	0	2	0	0	0	0	0	0	0	0	7
10.10	0	29	9	0	5	0	0	1	0	0	0	0	0	44
19:00	0	10	2	0	2	0	0	0	0	0	0	0	0	14
19:15	0	5	6	0	3	0	0	0	0	0	0	0	0	14
19:30	0	6	2	Ö	0	Õ	0	0	0	Ö	0	Ö	Ö	8
19:45	0	5	2	0	0	0	0	0	0	0	0	0	0	7
10.10	0	26	12	0	5	0	0	0	0	0	0	0	0	43
20:00	0	9	0	0	1	0	0	0	0	0	0	0	0	10
20:15	0	5	5	Ö	1	Õ	0	0	0	0	0	Ö	0	11
20:30	0	5	2	0	1	0	0	0	0	0	0	0	0	8
20:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
20.10	0	23	7	0	3	0	0	0	0	0	0	0	0	33
21:00	0	3	0	Ö	2	0	0	0	0	Ö	0	Ö	Ö	5
21:15	0	3	0	0	0	0	0	0	0	0	0	0	0	3
21:30	1	0	2	0	0	1	0	0	0	0	0	0	0	4
21:45	0	4	2	1	1	0	0	0	0	0	0	0	0	8
	1	10	4	1	3	1	0	0	0	0	0	0	0	20
22:00	0	1	0	0	0	0	0	0	0	Ö	0	0	0	1
22:15	0	2	2	0	1	0	0	1	n	0	0	0	0	6
22:30	0	3	2	0	0	0	0	0	0	0	0	0	0	5
22:45	0	1	0	0	1	0	0	0	0	0	0	0	0	2
	0	7	4	0	2	0	0	1	0	0	0	0	0	14
23:00	0	0	2	0	0	0	0	0	0	0	0	0	0	2
23:15	1	1	1	2	2	Ö	0	0	0	Ö	0	Ö	Ö	7
23:30	0	0	1	0	0	0	0	0	0	0	0	Ö	Ö	1
23:45	1	0	2	0	0	1	0	0	0	0	0	0	0	4
	2	1	6	2	2	<u>:</u>	0	0	0	0	0	0	0	14
Total	7	282	139	10	74	7	0	22	7	0	0	0	0	548
Percent	1.3%	51.5%	25.4%	1.8%	13.5%	1.3%	0.0%	4.0%	1.3%	0.0%	0.0%	0.0%	0.0%	0.0
							2.2.3							
Grand	20	770	407	20	266	EO	0	67	20	2	0	0	0	1760
Total	38	770	497	39	266	52	0	67	29	2	0	0	0	1760

3.0%

0.0%

3.8%

1.6%

0.0%

0.1%

0.0%

0.0%

2.2%

Percent

43.8%

28.2%

2.2%

15.1%

Bridge Inventory Data Listing Georgia Department of Transportation

SUFF. RATING: 56.4

County: Warren

Processed Date: 4/7/2017

217 Benchmark Elevation:

* Location ID No:

0000.00

301-00016D-004.65E

Bridge Serial Number: 301-0004-0

Parameters: Bridge Serial Number

Dirago Contantitanibon 600	00010	oounty: Trainon				
Location & Geography		218 Datum:	0- Not Applicable	Signs & Attachments		
Structure ID:	301-0004-0	*19 Bypass Length:	8	225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone	
OOO Deider Information	22	*00 T-II	O. On a Free Board on New Highway	040 De els Decimes	sealant).	
200 Bridge Information:	06	*20 Toll:	3- On a Free Road or Non-Highway	242 Deck Drains:	1- Open Scuppers.	
*6 Feature Intersected:	SHORT CREEK	*21 Maintenance Responsibility:	01-State Highway Agency.	243A Parapet Location:	0- None present.	
*7A Route Number Carried:	SR00016	*22 Owner:	01-State Highway Agency.	243B Parapet Height:	0.00	
*7B Facility Carried:	SR 16	*31 Design Load:	2- H 15	243C Parapet Width:	0.00	
9 Location:	6.5 MI SW OF WARRENTON	37 Historical Significance:	5- Not eligible for the National Register of Historic Places	238A Curb Height:	1.2	
2 GDOT District:	4841200000 - D2 District Two Tennille	205 Congressional District:	010	238B Curb Material:	1- Concrete.	
*91 Inspection Frequency:	24 Date: 01/31/2017	27 Year Constructed:	1937	239A Handrail Left:	1- Concrete.	
92A Fracture Critical Insp. Freq:	0 Date: 02/01/1901	106 Year Reconstructed:	0	239B Handrail Right:	1- Concrete.	
92B Underwater Insp Freq:	0 Date: 02/01/1901	33 Bridge Median:	0-None	*240 Median Barrier Rail:	0- None.	
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	34 Skew:	0	241A Bridge Median Height:	0	
* 4 Place Code:	00000	35 Structure Flared:	No	241B Bridge Median Width:	0	
*5A Inventory Route(O/U):	1	38 Navigation Control:	0- Navigation is not controlled by an Agency	*230A Guardrail Location Direction Rear:	3- Both sides.	
5B Route Type:	3 - State	213 Special Steel Design:	0- Not applicable or other	*230B Guardrail Location Direction Fwrd:	3- Both sides.	
5C Service Designation:	1- Mainline	267A Type Paint Super Structure:	2- Non-Lead Oil Alkyd System (System IV). Year: 1993	*230C Guardrail Location Opposing Rear:	0- None.	
5D Route Number:	00016	267B Type Paint Sub Structure:	0- Not Applicable Year : 0000	*230D Guardrail Location Opposing Fwrd:	0- None.	
5E Directional Suffix:	0. Not applicable	*42A Type of Service On:	1-Highway	244 Approach Slab:	3- Forward and Rear.	
*16 Latitude:	33 - 19.8545	*42B Type of Service Under:	5-Waterway	224 Retaining Wall:	0- None.	
*17 Longtitude:	82 - 43.6633	214A Movable Bridge:	0	233 Posted Speed Limit:	55	
98A Border Bridge:	0 98B: GA% 00	214B Operator on Duty:	0	236 Warning Sign:	Yes	
99 ID Number:	0000000000000	203 Type Bridge:	A- Spread footing. O. Concrete M. Steel O. Concrete	234 Delineator:	Yes	
*100 STRAHNET:	0- The Feature is not a STRAHNET route.	259 Pile Encasement:	3	235 Hazard Boards:	Yes	
12 Base Highway Network:	Yes	*43A Structure Type Main material:	3-Steel	237A Gas:	00- Not Applicable	
13A LRS Inventory Route:	3011001600	*43B Structure Type Main Type:	2-Stringer/Multi-Beam or Girder	237B Water:	00- Not Applicable	
13B Sub Inventory Route:	0	45 Number of Main Spans:	2	237C Electric:	00- Not Applicable	
101 Parallel Structure:	N. No parallel structure exists	44 Structure Type Approach:	A:0- Other B: 0- Other	237D Telephone:	31- Side Left.	
*102 Direction of Traffic:	2- Two Way	46 Number of Approach Spans:	0	237E Sewer:	00- Not Applicable	
*264 Road Inventory Mile Post:	4.63	226 Bridge Curve:	A: Vertical: NoB: Horizontal: No	247A Lighting: Street:	No	
*208 Inspection Area:	Area 02	111 Pier Protection:	N - Navigation Control item coded 0, or Feature not a waterway	247B Navigation:	No	
*104 Highway System:	0- Inventory Route is not on the NHS	107 Deck Structure Type:	1 - C-I-P Portland Cement Concrete - Epoxy Coated Rebars	247C Aerial:	No	
*26 Functional Classification:	6- Rural - Minor Arterial	108A Wearing Surface Type:	6. Bituminous	*248 County Continuity No.:	08	
*204A Federal Route Type:	F - Primary.	108B Membrane Type:	8. Unknown	36A Bridge Railings:	2- Inspected feature meets acceptable	
*204B Federal Route Number:	00042	108C Deck Protection:	8. Unknown	36B Transition:	construction date standards. 2- Inspected feature meets acceptable construction date standards.	
105 Federal Lands Highway:	0. Not applicable	265 Underwater Inspection Area:	0	36C Approach Guardrail:	2- Inspected feature meets acceptable construction date standards.	
*110 Truck Route:	0- The Feature is not part of the National Network for Trucks			36D Approach Guardrail Ends:	Inspected feature meets acceptable construction date standards.	

Bridge Inventory Data Listing Georgia Department of Transportation

SUFF. RATING: 56.4

County: Warren

Processed Date:4/7/2017

Bridge Serial Number: 301-0004-0

	•							
Programming Data		Measurements:				Ratings and Posting		
201 Project Number:	FAP NRH 138-A REOP	*29 AADT:		1430		65 Inventory Rating Method:	1-Load Factor (LF)	
202 Plans Available:	4- Plans in Infolmage.	*30 AADT Year:		2011		63 Operating Rating Method:	1-Load Factor (LF)	
249 Proposed Project Number:	BRG-0007-00(057)	109 % Truck Traffic:		1		66A Inventory Type:	2 - HS loading.	
250A Reconstruction Approval Status:	No	* 28A Lanes On:		2		66B Inventory Rating:	25	
250B Route Approval Status:	No	*28B Lanes Under:		0		64A Operating Type:	2 - HS loading.	
250C Approval Status Definition:	0	210A Tracks On:		00		64B Operating Rating:	41	
250D Approval Status Federal:	0	210B Tracks Under:		0		231Calculated Loads		Posting Required
251Project Identification Number:	0007057	* 48 Maximum Span Length:		32		231A H-Modified:	21	No
252 Contract Date:	02/01/1901	* 49 Structure Length:		64		231B Type3/Tandem:	23	No
260 Seismic Number:	00000	51 Bridge Roadway Width:		23.8'		231C Timber:	31	No
75A Type Work Proposed:	34- Widening with deck rehabilitation or replacement	52 Deck Width:		26.5'		231D HS-Modified:	26	No
75B Work Done by:	1- Work to be done by contract	* 47 Total Horizontal Clearance	ce:	23.8'		231E Type 3S2:	36	No
94 Bridge Improvement Cost:(X\$1,000)	\$250	50A Curb / Sidewalk Width Le	eft:	0.6		231F Piggyback:	40	No
95 Roadway Improvement Cost: (X\$1,000)	\$25	50B Curb / Sidewalk Width Ri	ght:	0.6		261 H Inventory Rating:	18	
96 Total Improvement Cost: (X\$1,000)	\$375	32 Approach Rdwy. Width:		29.0'		262 H Operating Rating:	30	
76 Improvement Length:	1384.0'	*229 Approach Roadway				67 Structural Evaluation:	5	
97 Year Improvement Cost Based On:	2013	Rear Shoulder Left: Width:	3.3	Right Width:3.0	Type: 2 - Asphalt.	58 Deck Condition:	5 - Fair Condition	
114 Future AADT:	2145	Fwd Shoulder: Left Width:	3.3	Right Width:3.0	Type: 2 - Asphalt.	59 Superstructure Condition:	5 - Fair Condition	
115 Future AADT Year:	2031	Rear Pavement: Width:	22.40000000000	Type:2- Asphalt.		* 227 Collision Damage:		
		Forward Pavement: Width:	0002 22.400000000000	Type:2- Asphalt.		60A Substructure Condition:	6 - Satisfactory Condit	tion
		Intersection Rear:	0002 0	Forward:0		60B Scour Condition:	8 - Very Good Condition	on
Hydraulic Data		53 Minimum Vertical Clearance	ce Over Rd:	99' 99"		60C Underwater Condition:	N - Not Applicable	
113 Scour Critical:	U. No Load Rating; no scour critical data entered.	54A Under Reference Feature):	N- Feature not a hi	ghway or railroad.	71 Waterway Adequacy:	8-Equal to present des	sirable criteria.
216A Water Depth:	1	54B Minimum Clearance Unde	er:	0' 0"		61 Channel Protection Cond.:	7-Better than present	minimum criteria.
216B Bridge Height:	11	*228 Minimum Vertical Clear	rance			68 Deck Geometry:	4	
222 Slope Protection:	1	228A Actual Odometer Directi	ion:	99'99"		69 UnderClr. Horz/Vert:	N	
221A Spur Dike Rear:		228B Actual Opposing Direction	on:	99'99"		72 Approach Alignment:	7-Between 8 and 6	
221B Spur Dike Fwd:		228C Posted Odometer Direc	tion:	00'00"		62 Culvert:	N - Not Applicable	
219 Fender System:	0- None.	228D Posted Opposing Direct	tion:	00'00"		70 Bridge Posting Required:	5. Equal to or above le	egal loads
220 Dolphin:		55A Lateral Underclearance F	Reference:	N- Feature not a hi	ghway or railroad.	41 Struct Open, Posted, CL:	A. Open, no restriction	า
223A Culvert Cover:	000	55B Lateral Underclearance	on Right:	0.0		* 103 Temporary Structure:	No	
223B Culvert Type:	0- Not Applicable	56 Lateral Underclearance or	n Left:	0.0		232 Posted Loads		
223C Number of Barrels:	0	10A Direction of Travel for Ma	x Min:	0		232A H-Modified:	00	
223D Barrel Width:	0.0	10B Max Min Vertical Clearan	ce:	99'99"		232B Type3/Tandem:	00	
223E Barrel Height:	0.0	245A Deck Thickness Main:		7.5		232C Timber:	00	
223F Culvert Length:	0.0	245B Deck Thickness Approa	ch:	0.0		232D HS-Modified:	00	
223G Culvert Apron:	0	246 Overlay Thickness:		2		232E Type 3s2:	00	
39 Navigation Vertical Clearance:	0'	•				232F Piggyback:	00	
40 Navigation Horizontal Clearance:	0					253 Notification Date:	02/01/1901	
116 Navigation Vertical Clear Closed:	0					258 Federal Notify Date:	02/01/1901	



(404) 205-8530 www.moffattnichol.com

Meeting Minutes

Date: December 6, 2017 Time: 11:00 am

Location: GDOT, Room 302 OGC (lobby level)

Project: PI No. 0007057, SR 16 @ Short Creek, Warren County

Subject: Kick-off Meeting

Recorded By: Darren Wilton

<u>Attendees</u>	<u>Organization</u>	<u>Phone</u>	<u>Email</u>
Kim Chapman	GDOT	770-499-1161	kchapman@dot.ga.gov
David Borchardt	GDOT-ENV-NEPA	404-631-1184	DBorchardt@dot.ga.gov
Todd Price	GDOT-D2-Precon E	478-553-3405	tprice@dot.ga.gov
Clayton Sanders	GDOT-D2-UTL	478-553-3382	dsanders@dot.ga.gov
Jamie Lindsey	GDOT-D2-DUE	478-553-3385	<u>ilindsey@dot.ga.gov</u>
Darren Wilton	Moffatt & Nichol	404-205-8530	dwilton@moffattnichol.com
Chris Marsengill	Moffatt & Nichol	912-231-0044	cmarsengill@moffattnichol.com

- Kim Chapman began the meeting with introductions of all meeting attendees and everyone's role in the project.
- Kim stated the purpose of the meeting is to kickoff Master Contract: MPOPD1701685
 - o TO#1: PI 0007057 (Warren County)
 - TO#2: PI 0013998 (Oconee & Walton County) (separate meeting minutes)
 - o TO#3: PI 0014903 (Morgan County) (separate meeting minutes)
- The GDOT environmental lead would be David Borchardt instead of those listed in the meeting agenda:
 - → PI-0007057: TBD
- Concept Report will be "Limited Scope" template. It was noted to check for updated versions as changes are made regularly.
- The use of an off-site detour is usually the preferred alternative unless it is determined that an on-site detour is necessary. Kim will send example off-site detour maps. Detour maps should be submitted early for stakeholder outreach to occur.
- R/W estimate should be submitted as soon as layouts are ready to give GDOT time to perform the estimate. Document in the Concept Report when the R/W estimate request was submitted.
- For submittals, Kim requested to submit one day prior to the "submit to PM" date on the schedule to allow enough time for processing the submittal.
- Chris asked if an updated P6 schedule was available yet. Kim provided AECOM 411
 schedules ahead of the meeting. Kim stated that she will provide "What-if" P6 project
 schedules with January 2018 NTP date for the team to reference for target submittal dates
 to keep project development ahead of schedule.

Project Kickoff Meeting Minutes (continued)
PI No. 0007057, SR 16 @ Short Creek, Warren County
December 6, 2017

- Kim stated that status meetings will need to occur on this project. The preference is to have them monthly but sometimes every two months will be adequate depending on the tasks at the time. Moffatt & Nichol (M&N) will be responsible for scheduling these meetings.
- Kim stated that NTP was provided on this Task Order (TO#1).
- For invoicing, Kim requested a cover and summary sheet with no hours or rates for her approval prior to submitting the invoice in CMIS. Kim requested that we submit our first invoice on 0007057 as soon as possible for processing by the end of the year.
- Kim shared that the Project Justification Statement has been received.
- Kim shared that utility owner information has been provided. Utility estimate requests can be made at the same time as the R/W estimate request.
- Kim spoke about Risk Assessment and mentioned the adjacent wetlands, bridge demolition impacts, and utility impacts typical to bridge projects. David asked for initial indications for off-site detours. Darren mentioned that it was a possibility for this project.
- Kim noted getting the survey and environmental notification letter mailed out as soon as
 possible. M&N has the new template and will submit the letters to Kim for routing
 signatures.
- David asked the team to carefully verify the need for pedestrian facilities during construction if the off-site detour is the preferred alternative.
- David also asked if MS4 is required for this project. Darren stated that no MS4 is required for this project.
- Kim stated that SUE is not required on the project.

Action Items:

- Provide "What-if" P6 Schedule when completed GDOT, Kim Chapman
- Schedule Monthly Status Meetings Moffatt & Nichol
- Submit first invoice on TO#1 ASAP Moffatt & Nichol
- Survey and Environmental Property Notification Letters Moffatt & Nichol





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Meeting Minutes

Date: March 20, 2018 Time: 1:30 PM

Location: GDOT OGC, Room 408

Subject: Alternatives Meeting

PI No: PI No. 0007057, SR 16 @ Short Creek, Warren County

Recorded By: Darren Wilton

<u>Attendees</u>	<u>Organization</u>	<u>Phone</u>	<u>Email</u>
Mindy Sanders	GDOT-OPD	678-986-7648	MiSanders@dot.ga.gov
Carol Kalafut	GDOT-Bridge	404-631-1882	ckalafut@dot.ga.gov
Adrienne Conley	GDOT-OES-ECOL	404-631-1845	aconley@dot.ga.gov
Pamela Baughman	GDOT-OES-ARCH	404-631-1198	pbaughman@dot.ga.gov
Spencer Pucci	GDOT-OES-A/N	404-631-1164	spucci@dot.ga.gov
Todd Price	GDOT-D2 PCE	479-553-3405	tprice@dot.ga.gov
Tonia Parker	GDOT-D2 UTLS	478-553-3386	toparker@dot.ga.gov
Jimmy Harbor	GDOT		jharbor@dot.ga.gov
Jamie Lindsey	GDOT-D2 DUE	478-553-3385	jlindsey@dot.ga.gov
Bobby Dollar	GDOT-OES-NEPA	404-631-1920	rdollar@dot.ga.gov
Harold Mull	GDOT-D1 DCE	770-533-8963	hmull@dot.ga.gov
Shannon Giles	GDOT-D1 A2 ENGR	706-583-2644	sgiles@dot.ga.gov
Terri Holbrook	GDOT-D2 DUE	770-533-8316	teholbrook@dot.ga.gov
Joel Seagraves	GDOT-D2	770-533-8279	jseagraves@dot.ga.gov
Chris Marosco	GDOT		Cmarosco@dot.ga.gov
David Smith	Ecological Solutions	770-998-7848	Davidsmith@ecologicalsolutions.net
Darren Wilton	Moffatt & Nichol	404-205-8530	dwilton@moffattnichol.com
Chris Marsengill	Moffatt & Nichol	912-231-0044	cmarsengill@moffattnichol.com
Scott Caples	Moffatt & Nichol	404-205-8536	scaples@moffattnichol.com
Regina Schuster	Calyx	678-795-3624	rschuster@calyxengineers.com
Chris Mroczka	Calyx	678-795-3624	cmroczka@calyxengineers.com
Erin Murphy	VHB	404-417-4086	emurphy@VHB.com

- Mindy Sanders began the meeting with introductions of all meeting attendees.
- Darren Wilton provided handouts of draft concept reports and all alternatives to be discussed.
- Darren Wilton went through the draft concept report
- Darren Wilton discussed items of specific importance in the draft concept reports as summarized below:



Alternatives Meeting Minutes (continued) PI No. 0007057 March 20, 2018

- Existing traffic in GEOCOUNTS is around 1,840 ADT and projections are expected to exceed 2000 ADT. Truck percentages are 26%. The Traffic Count Location Maps were approved on 2/22/18 and actual counts will be verified when received.
- Rural Minor Arterial (55 mph)
- Existing bridge is 64-feet long, two spans with steel beams, 11-foot travel lanes with 1-foot shoulders. Proposed bridge is approximately 85-feet long, two short spans or single span, 12-foot lanes with 8-foot shoulders.
- ABC methods identified for this project include the use of an off-site detour, onsite detour with temporary bridge, or use of a single span to reduce traffic impacts and construction time.
- Roadway and bridge design criteria was reviewed in the draft concept report.
- Environmental was reviewed by the team:
 - Ecology Early coordination shows Granite Outcrop species now in season; has potential for typical species, but unlikely. Also, wetland and streams impacts are expected.
 - Stream Buffer Variance is expected due to parallel stream section adjacent to roadway.
 - No history expected, field work to be completed soon.
 - VHB noted a possible ESA at NW quadrant of bridge. GNAHRGIS research shows small lithic scatter (confirmed by Pam) – all preliminary and likely ineligible.
- Darren reviewed three alternatives considered in the concept report:
 - ALT A Widening to the east
 - Allows MOT without offsite detour
 - Higher cost because parallel bridge construction and pavement realignment
 - ALT B Widening to the west
 - More ecology on this side
 - Broken-back curve
 - ALT C Existing alignment with off-site detour
 - Replace bridge at current location
 - Quicker construction
 - A detour map was presented with the following route for trucks:
 - From the south use SR 123 to Mitchell, then SR 102 to Gibson, SR 177 to Warrenton, then SR 12 to SR 186
 - Net additional length of 19 miles
 - A shorter local route, no trucks, is also shown on the map via Mitchell Road, approximately 5-6 miles.
- Additional comments favored the off-site detour as being the best ABC solution at this location. It was agreed that this typically reduces construction cost and impacts.
- Mindy went through the early coordination questionnaires sent to stakeholders
 - EMS responded with a high impact for response times.



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- Warren County has been supportive of closing the road for expediting construction.
- Responses from official detour map coordination has not been received yet.
- Spencer stated that no structures are within 800 feet of corridor for air/noise.
- Pam stated that all Environmental Survey Boundaries (ESB's) submitted did not cover the entire project length especially near the ends of all three projects. Darren explained ESB's lengths were based on task order scope assumptions. Next TO will address any additional area if preferred alternative is not an off-site detour option.
- Next milestone is the Concept Team Meeting
- Chris asked if there was any consensus on a preferred alternative. The preferred alternative discussed was:
 - 0007057 ALT C, off-site detour, however it depends on results from detour coordination and cost estimates





(404) 205-8530 www.moffattnichol.com

Meeting Minutes

Date: May 16, 2018 Time: 10:00 am

Location: GDOT District 2 Office

Project: PI No. 0007057, SR 16 at Short Creek

Subject: Concept Team Meeting

Recorded By: Nina Gailey

<u>Attendees</u>	<u>Organization</u>	<u>Phone</u>	<u>Email</u>
Darren Wilton	Moffatt & Nichol	404-205-8530	dwilton@moffattnichol.com
Chris Marsengill	Moffatt & Nichol	912-231-0044	cmarsengill@moffattnichol.com
David Fox	QK4	404-417-3022	dfox@qk4.com
Monica Fogle	GDOT Dist. Traffic	478-553-3360	mfogle@dot.ga.gov
Ellen Wright	GDOT D2 DPPC	478-553-3407	ewright@dot.ga.gov
Todd Price	GDOT D2 Precon.	478-553-3405	tprice@dot.ga.gov
Jimmy Hobby	GDOT Utilities	478-553-3380	jhobby@dot.ga.gov
Mindy Sanders	GDOT OPD	678-986-7648	misanders@dot.ga.gov
Bryan K. Gibbs	GDOT D2 Const.	478-553-3340	bgibbs@dot.ga.gov
Bonnie Skaggs	GDOT Utilities	478-456-0905	bskaggs@dot.ga.gov
Jamie Lindsey	GDOT Utilities	478-553-3385	jlindsey@dot.ga.gov

- Mindy Sanders, the GDOT Project Manager, began the meeting with introductions of all
 meeting attendees and everyone's role in the project and a brief description of the project.
 She then turned the meeting over to Darren Wilton to discuss the project.
- Darren utilized a PowerPoint presentation during the meeting to discuss the Concept.
- Project Background was discussed including the location, project purpose and need, bridge condition, age, and pictures of the existing bridge were included. The existing roadway is a two-lane rural minor arterial (55 mph) located southwest of Warrenton, GA and east of Sparta, GA.
 - Darren noted the existing bridge is 64-feet long, 2-spans with steel beams and concrete caps, 11-foot travel lanes with 1-foot outside shoulders. Proposed bridge is approximately 85-feet long with 12-foot lanes and 8-foot outside shoulders.
 - Darren noted the existing traffic volumes estimated from GDOT's count station as 1,840 AADT near the project corridor. 24-hr Truck percentage is around 26%.
 Open Year and Design Year volume projections are pending.
 - Darren reviewed the roadway and bridge design criteria from the concept report.

- Environmental considerations were discussed, including Ecology, Aquatic survey, Archaeological, and historic resources.
 - Ecological resources Early coordination shows Granite Outcrop species in the area with surrounding wetland and stream impacts expected. Stream Buffer Variance is expected due to Short Creek having a parallel stream section adjacent to roadway west of SR 16.
 - History No resources identified.
 - Archaeology GNAHRGIS research shows a small lithic scatter at the NW quadrant of the bridge but field research is still being finalized.
 - o Air/Noise No concern mentioned.
- The proposed design parameters were discussed. Roadway will have two 12-foot lanes in each direction with 10-foot (4-foot paved) outside shoulders. The proposed roadway and bridge typical section graphics were presented.
- Three alternatives were discussed for the project, which include:
 - o ALT A Parallel, stage permanent bridge east of existing bridge
 - Longer project length for asphalt roadway tie-in
 - Impacts 3 parcels
 - Two lanes open throughout construction
 - o ALT B Parallel, stage permanent bridge west of existing bridge
 - Longer project length for asphalt roadway tie-in
 - Impacts 1 parcel
 - Two lanes open throughout construction
 - Parallel stream adjacent to roadway presents challenges
 - ALT C Off-site Detour (Preferred Alternative)
 - All bridge construction can be completed without staged construction
 - Construction cost is reduced with shorter overall project length
 - Detour net length increase of 19 miles
- Environmental and Permits were discussed, including NEPA, Ecology, History, Archaeology, Public involvement and Air/Noise.
- Existing utilities were listed and no other utility owners were added.
- Other project items were discussed, including lighting, off-site detour, Transportation Management Plan (TTC), context sensitive solutions and MS4 (permit is not required).
- Carol requested that the sufficiency rating be removed from all concept reports.
- District 2 requested the construction times for alternatives be reviewed and revised.
- Darren asked if there were any comments relating to the selected preferred alternative or the off-site detour in the concept report and no comments were raised.
- Darren ended the meeting asking for everyone to please provide any final comments or questions no later than May 30, 2018.

